The Builder

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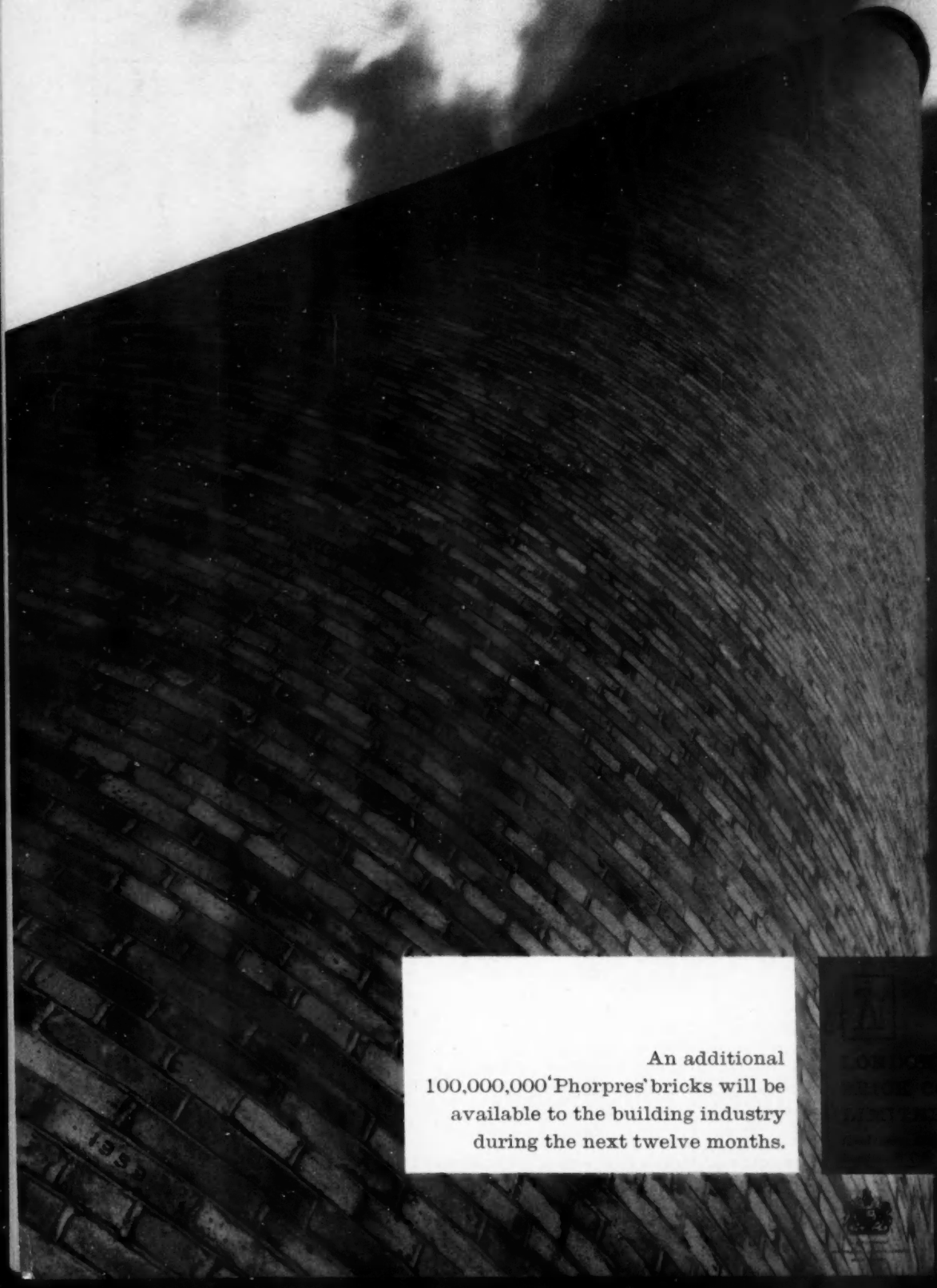

An additional 100,000,000 'Phorpres' bricks will be available to the building industry during the next twelve months.

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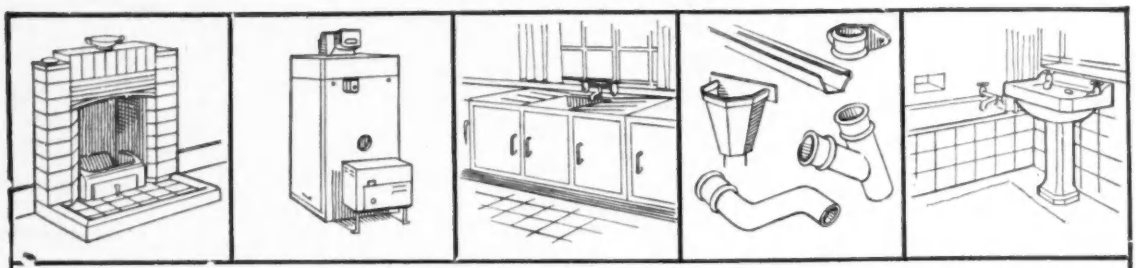

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H-W 163

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Rates Class 1—Surface Spread of Flame Test—B.S. 476/53

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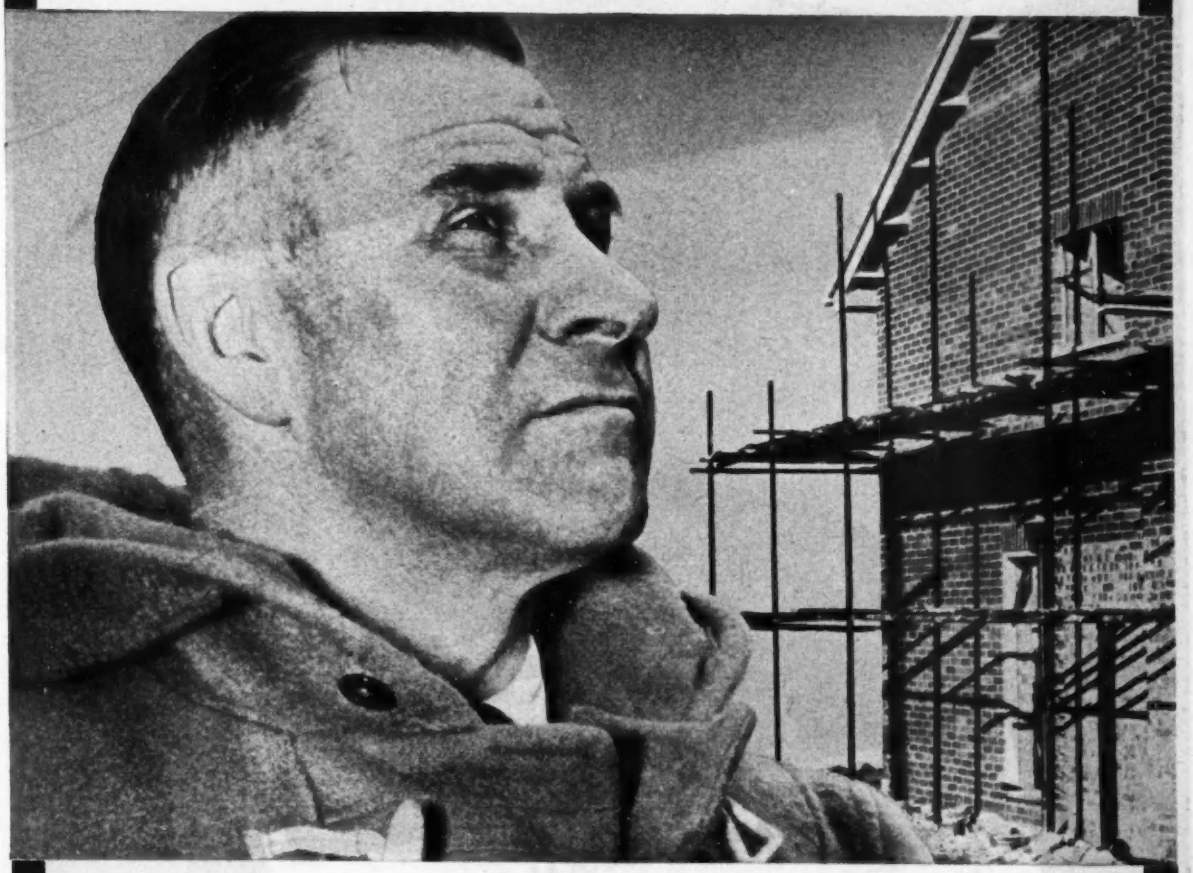
	THICKNESS	WIDTH	LENGTHS
STANDARD	½"	2 & 4 ft.	8 & 10 ft.
	¾"	4 ft.	8 ft.
	1"	4 ft.	8 ft.
BEVELLED PANELS	½" & ¾"	4 ft.	4 ft.
		4 ft.	2 ft.
		2 ft.	2 ft.

Other sizes supplied on request
Kraft paper wrapped in bundles

Taking a chance on tonight's frost?



It's poor economics to take a chance with winter bricklaying and concreting when Tretol Anti-Freezer is available. This inexpensive building aid has proved itself over twenty years as the most effective safeguard against frost. Simply add Tretol Anti-Freezer to the gauging water—it prevents freezing of the mix even in near-Arctic conditions! The worst days of winter are still ahead—why not write *today* for details and prices of Tretol Anti-Freezer?

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Architects: Powell & Moya, F./F.R.I.B.A.
Contractors: M. J. Gleeson (Contractors) Ltd.

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During the two winters repeated cycles of freezing and thawing occurred, the lowest recorded working temperature being 27°F. falling at night to 19°F.

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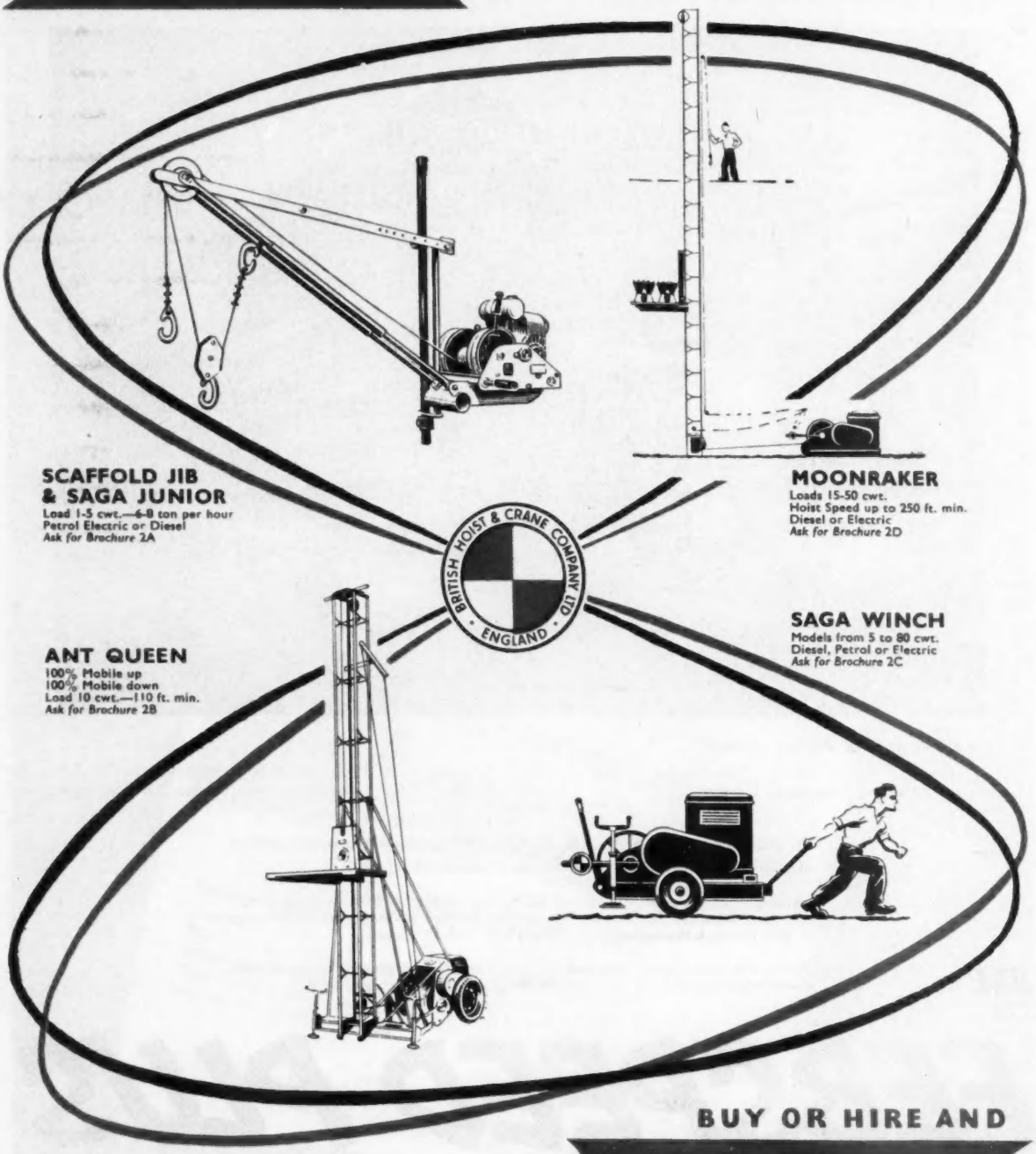

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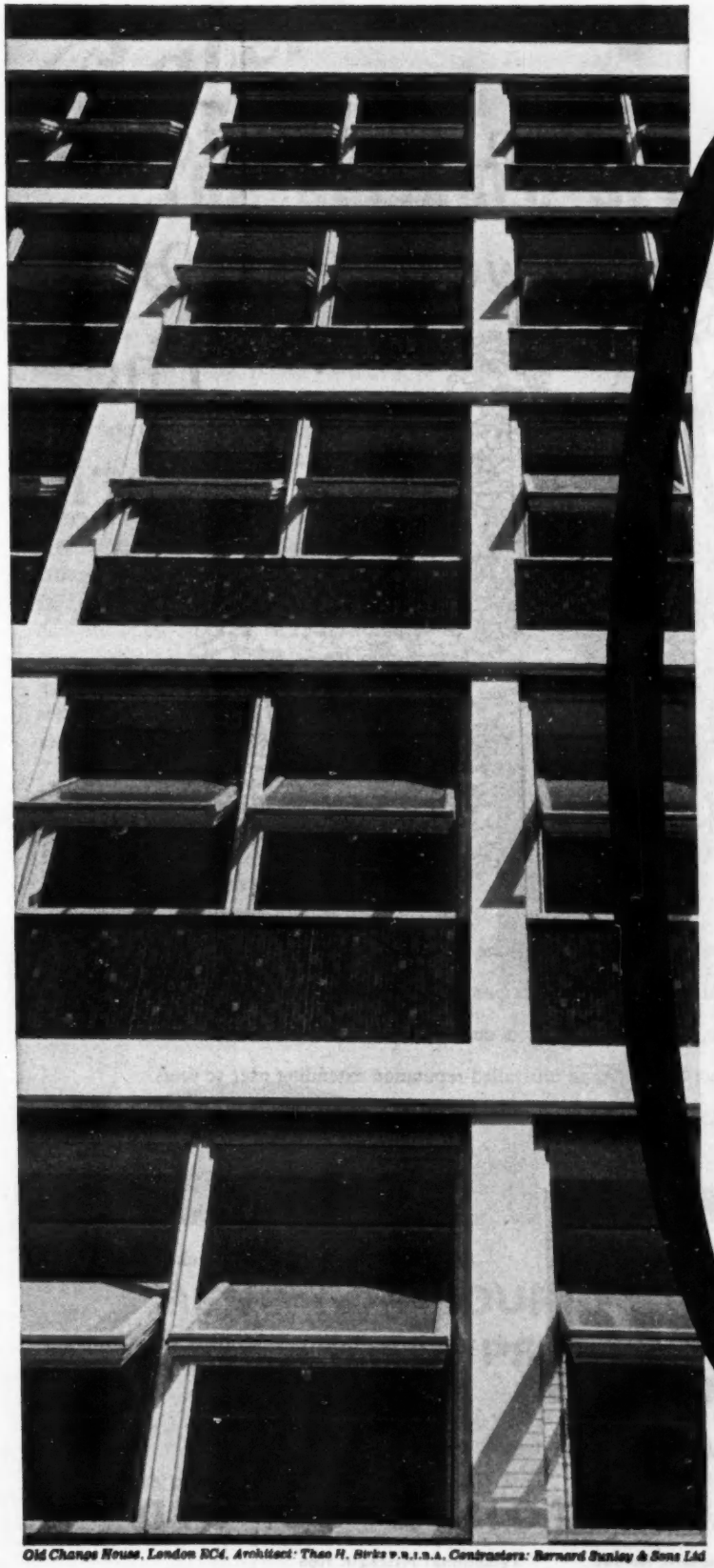

Old Change House, London EC4. Architect: Theo H. Birks F.R.I.B.A. Contractors: Bernard Sunley & Sons Ltd

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New needs, new architecture, new buildings—and new ranges of Crittall windows. Crittall aluminium windows, designed to match the most forward- and upward-looking architectural concepts and ready to meet the toughest, down-to-earth practical service demands.

Thorough, painstaking researches on an international scale, the application of the most far-reaching advances in design and manufacturing techniques, and a new factory specialising in the production of aluminium windows and equipped with an anodising plant as up-to-the-minute as any in the world. All this, added to Crittall's already long experience in making metal windows of all kinds, will help to make the larger, higher, buildings of the future more efficient to live in and work in, less costly to maintain.

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CRITTALL

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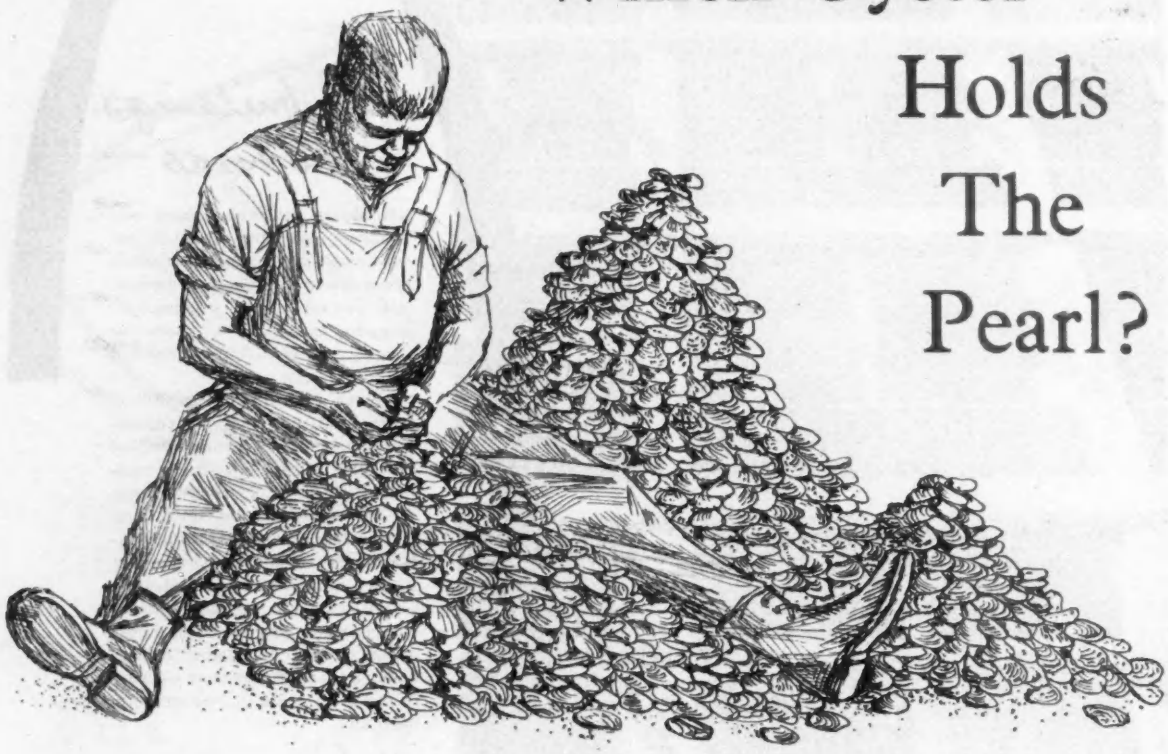
Which Oyster Holds The Pearl?



Which indeed! There's no means of telling until each one is prised open.

There was a time when the choice of the right product was equally difficult. But today reputation is the infallible guide. That's why, when it comes to plasticisers, builders choose Lillington's Plasmor—the product backed by an unrivalled reputation extending over 50 years.

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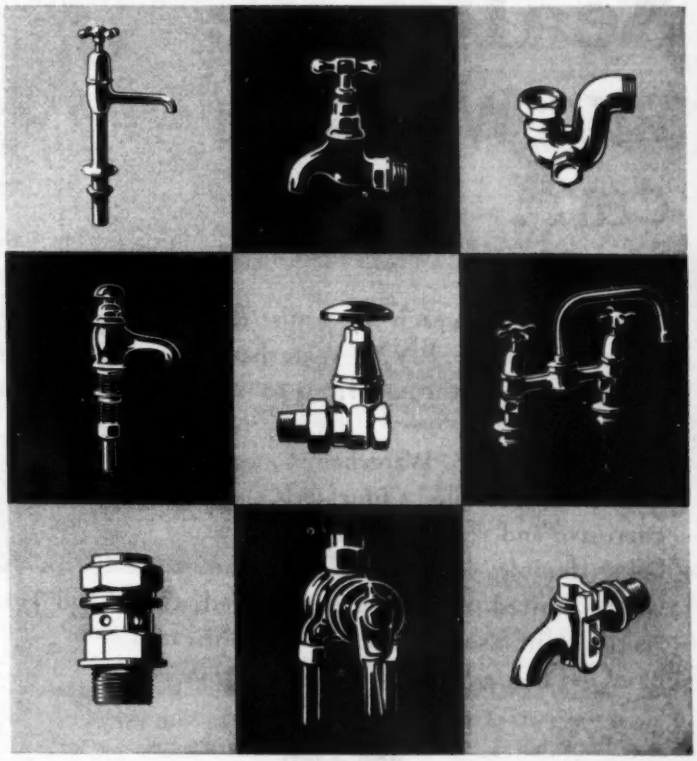
By always using Peglers plumbing fittings you can keep costs down and yet be sure you have made the best possible choice. A Peglers fitting can always be relied upon for performance and high quality finish. Prices are so remarkably low as Peglers employ the most modern large-scale production methods. High quality . . . low cost . . . widest range!—three good reasons for using plumbing fittings by Peglers, the largest manufacturers of plumbers' and engineers' brasswork in the British Commonwealth.

PEGLERS TRAPS, WASTES AND TAPS. The Peglers range includes fittings for every possible purpose. Take taps for instance. These range from standard domestic screw-down bib and pillar cocks to the most highly specialised types, including those with special bottling noses, non-concussive self-closing types and special hairdressers' fittings.

'PRESTEX' COMPRESSION JOINTS cost less than any comparable fittings and can help you to reduce housing costs considerably wherever copper or polythene tubes are used in plumbing installations. They are simply and quickly handled and fitted—only a spanner is needed to fix them—and they can be made and re-made using the same copper cone.



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Sealocrete P.V.C. Waterbar is made of a special grade of unfilled Polyvinyl Chloride, is chemically inert, non-corrosive and resistant to ageing.

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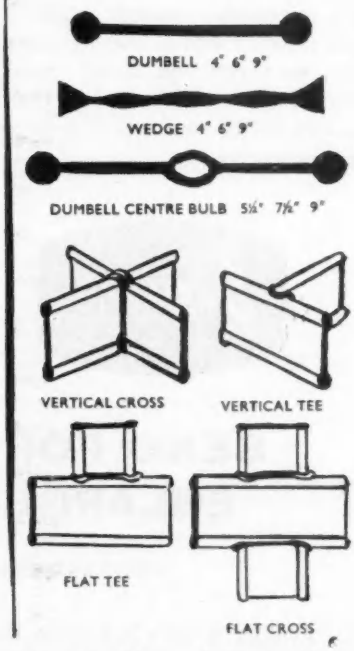

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Loose resilient fibre packed in hessian bags: for cavity insulation.

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Felted fibres forming a lightweight mat with single paper interleaf: for low-cost attic insulation or confined vertical spaces.

BUILDING MAT

Fibres bonded with bitumen to form a flexible mat with single paper interleaf: for low-cost structural insulation and sound deadening below floating floor screeds.

PLAIN QUILT

Felted fibres backed both sides with bitumen coated paper stuck to the fibres: for sound deadening in floating floor construction.

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Felted fibres backed both sides with bitumen coated paper stitched at intervals; closed edges: for insulation and lightweight floating floors.

SCRIM QUILT

Fibres backed both sides with flame resisting scrim, stitched at intervals; closed edges: for acoustic absorption and hanging within deep cavities.

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Felted fibres in strip form, stitched between scrim cloth: for low-cost insulation of water pipes.

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Rocksil fibres bonded together to form slabs of various densities: for special floor construction, flat roof insulation, curtain wall insulation, etc.

Loose Wool | Building Mat
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Versatile 'Rocksil' is available in 8 different forms. 'Rocksil' fibres are produced at high temperature from Dolomite rock and fire clay. These synthetic inorganic fibres are strong and resilient and these building products are characterised by their resistance to compression and shake-down.

Resilient **ROCKSIL**

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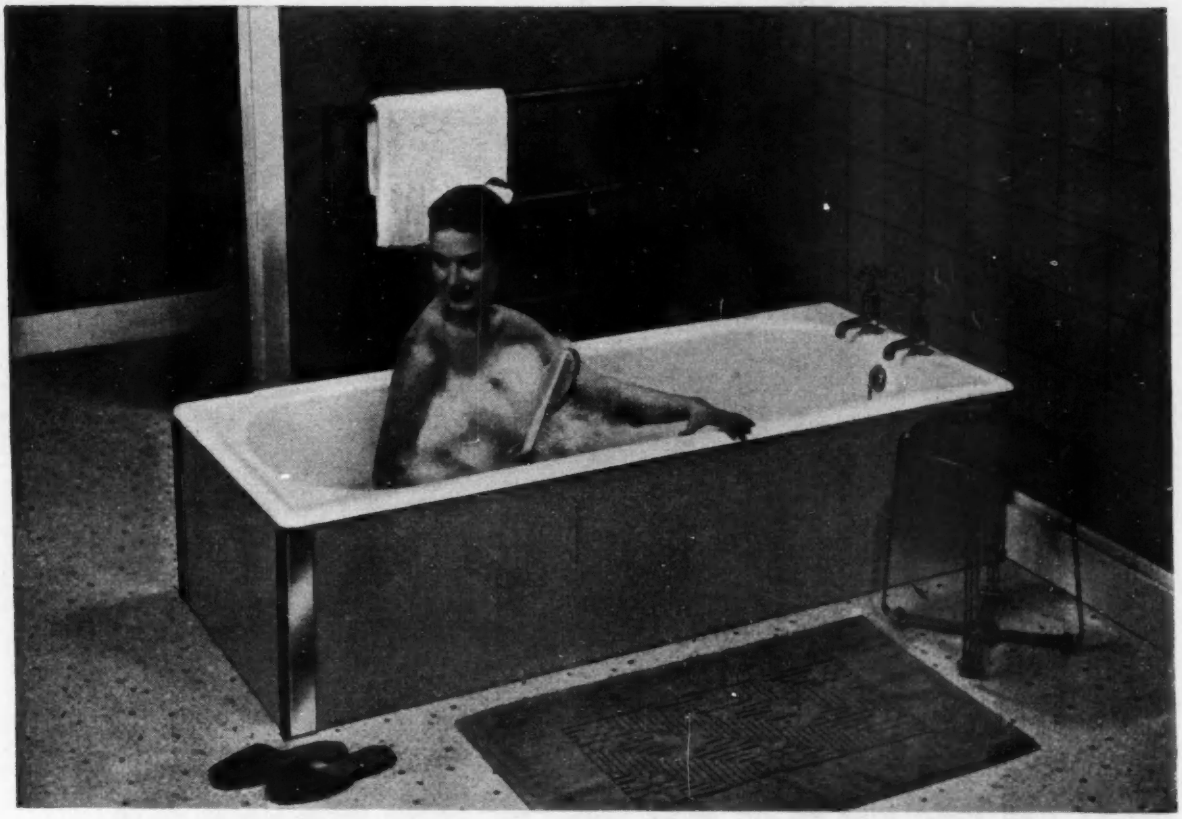

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HAS THE 'low down' ON COMFORT

Your customer will want an "Albany"
Length and depth are calculated for comfort and compactness.
Available in gleaming white Carron Porcelain Enamel or in a range of attractive colours.
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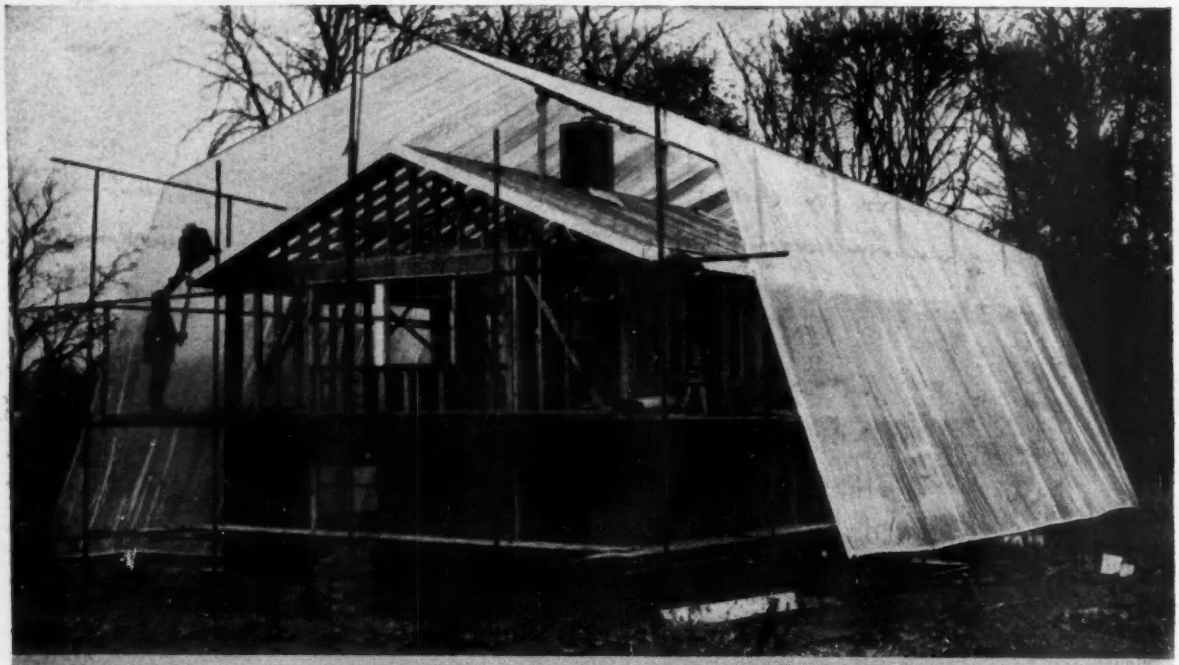
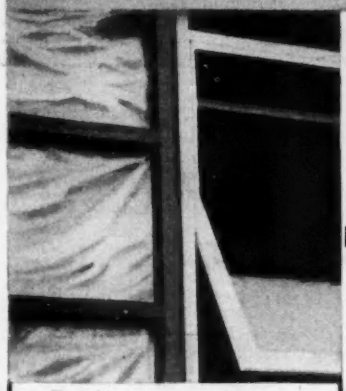


Changing the face of Building



Bexthene used as a vertical damp-proof membrane in wall construction behind timber studding.

Bexthene film

REGD.

POLYTHENE

Bexthene has taken the gamble out of off-season building. Now it is possible to carry on operations right through the year independent of the weather—rain, snow, hail or frost. This building canopy on a Sussex site, during nine weeks of building saved over 180 working hours that would otherwise have been lost.

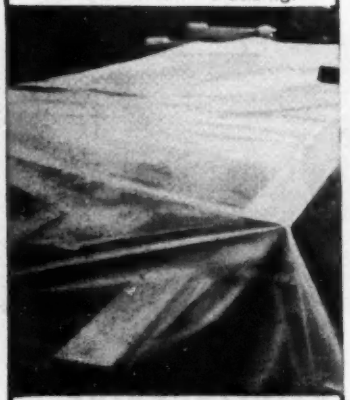
This is just one example of the Bexthene story. It is being used for hundreds of jobs throughout the building industry. Bexthene is light and economical, strong and tear resistant even in water.

Bexthene for building is supplied up to 12 ft. wide in stock sizes in 150, 250 and 500 gauge. For ease of handling on site, widths up to 6 ft. are supplied in 100-yard rolls, and 12 ft. wide centre-folded sheet is supplied in 50-yard rolls.

Take a look at these successful applications

Work shelters on site **Screens for scaffolding** **Concrete slip membranes**
Waterproof stack covers **Temporary glazing** **Overall damp courses**
Moisture barrier for timber structures **Concrete curing** **Concrete underlays**

The BX Technical Service Department is always at the disposal of anyone requiring advice or information on the uses or properties of Bexthene. Leaflets giving further details will be sent on request.



Floor boards protected by Bexthene from damp and frost.

BX PLASTICS LTD. *Subsidiary of The British Xylonite Co. Ltd.*

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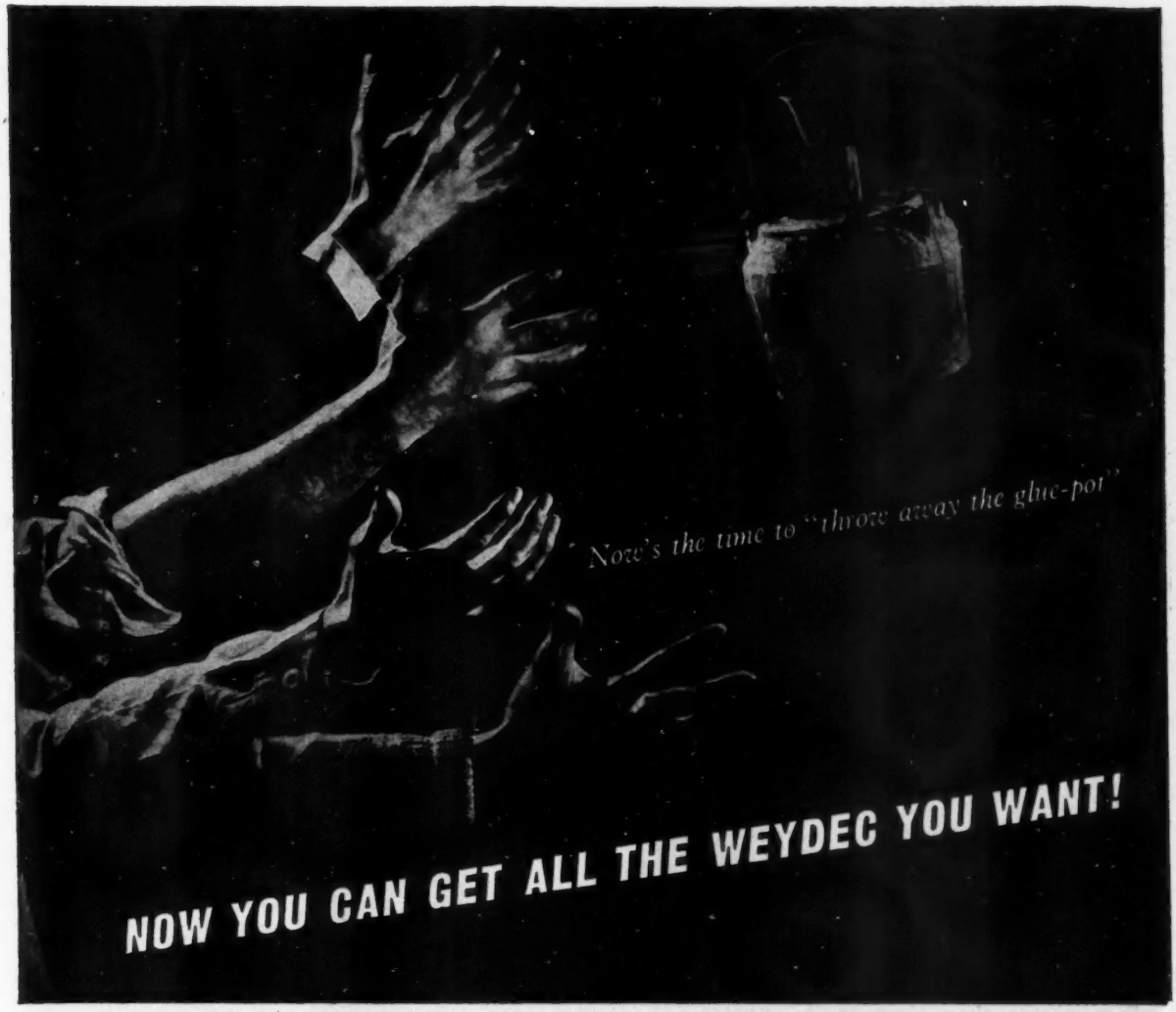

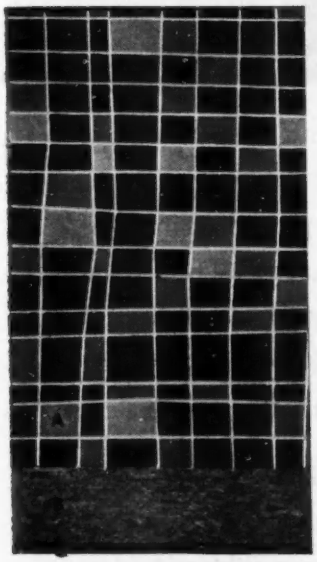

A. This design is one of the new Weydec surfaces.
B. The Weyroc core (⅛" or ¼").
C. Non-decorative plastic balancer on reverse face.

WEYDEC *constructional* boards—with their plastic surface already *factory-bonded* to a core of famous Weyroc—hold enormous cost-saving advantages for Architects, Shop-fitters, Furniture-makers and Builders. And now the good news is: *there's enough for everyone.* Greatly increased production has seen to that. NOW it's possible to make or specify whatever plastic-surfaced unit you want in this colourful, hard-wearing board. A *ready-bonded* plastic-surfaced board costs less than buying the board and surface separately, so Weydec saves money. And, by doing away with the glue-pot, Weydec saves on time and labour, too.

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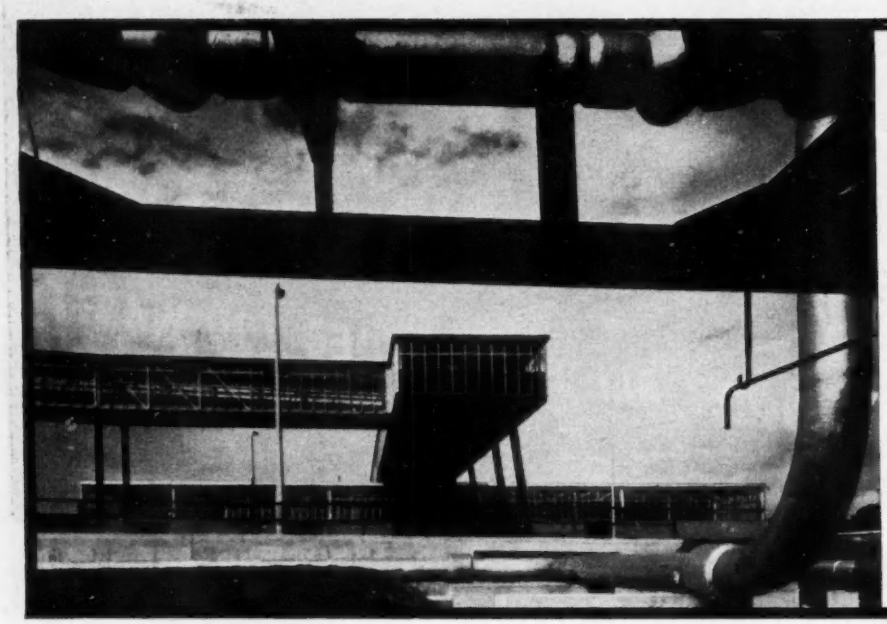


The new Heinz factory at Wigan is the largest factory to be built in Britain since the war. Shown here is the ancillary can factory, clad in Williams & Williams "Aluminex" vertical patent glazing. The continuous opening lights are gear-operated to give critical control of ventilation.

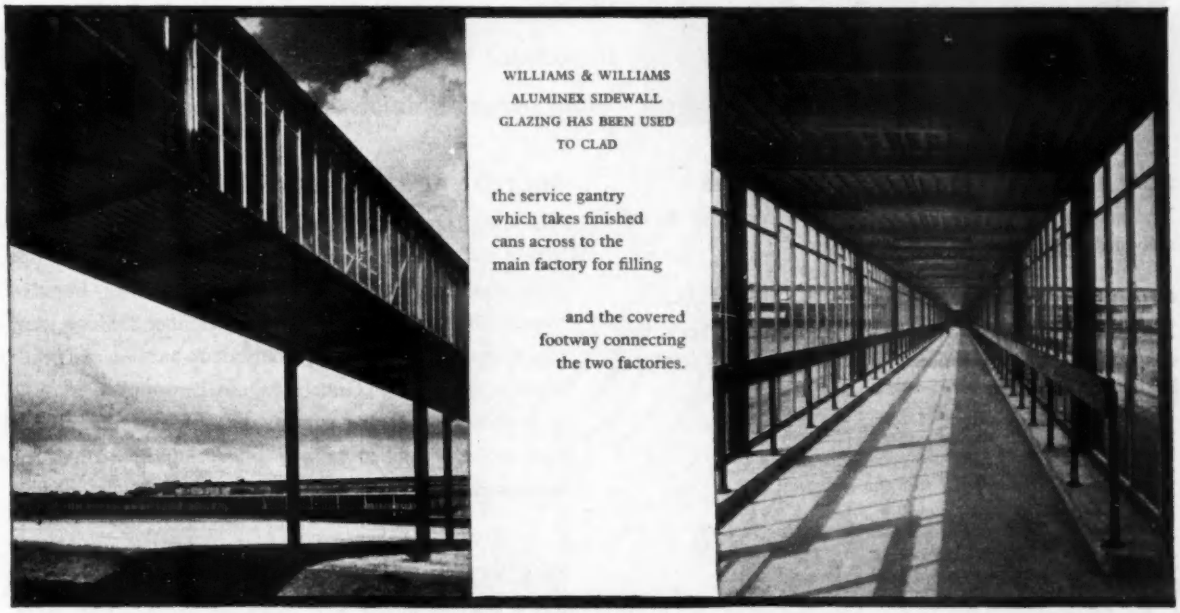
Architects:
J. Douglass Mathews and Partners, London in association with Skidmore, Owings and Merrill, New York.

The new Heinz factory is turning depressed Wigan into a boom area. By the time it is in full production it will be employing some 3,000 local people and taking up a good deal of the local agricultural produce, which is both abundant and high in quality.

The 127-acre site has a gradient of 1 in 40 which has been exploited to give the factory two working levels—both accessible to lorries.

Manufacture starts on the upper level with unloading, storage, preparation and cooking. Products are then gravity fed to the lower level for can filling, sterilization, packing, warehousing and finally dispatch.

The presence of old coal mines underneath the site meant careful positioning of the component buildings. The can factory is therefore at some distance from the food production unit



and is linked to it by a service gantry which feeds the finished cans into the appropriate stage of production process.

forward looking building products **WILLIAMS & WILLIAMS**

Williams & Williams make steel windows of every description, ALOMEGA and other aluminium windows, movable steel and glass partitioning, ALUMINEX patent glazing, WALLSPAN curtain walling and many other products, all of which can be seen at our permanent window exhibition at No. 36, High Holborn, London, W.C.1.
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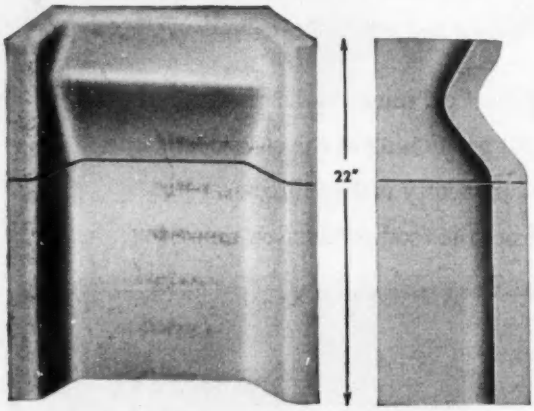
New FIRECLAY GRATEBACKS

• *Improve performance of Open Fires*

• *Facilitate fixing*

• *Simplify stocking*



THE NEW BRITISH STANDARD★ governing the design and production of Gratebacks is of special importance to all concerned with the specification, fixing and distribution of heating appliances.

SCALED TO STANDARD SURROUNDS

The standard grateback (22" high) now conforms to the standard height of surround openings.

GREATER EFFICIENCY

Intensive research has determined the height of knee, the extent of its forward projection, and depth from front to back, in order to ensure:—

Uninterrupted flow of gases

Minimum loss of heat via the chimney

Easy installation of standard throat restrictors

Greater protection to back of surround

INTERCHANGEABILITY OF FIRES

With the new standard gratebacks, inset open fires made by different manufacturers become interchangeable, and the design of inset convector fires for universal installation is facilitated.

SECTIONAL GRATEBACKS

The advantages of sectionalised gratebacks for all types of fires is recognised in the new British Standard. These not only expedite initial installation and replacement, but also provide the stress relief necessary to combat the high local temperatures encountered in continuous-burning and other modern appliances. Gratebacks can be supplied in 2, 4 or 6 sections, but the pattern illustrated represents the best value. Supplied in one piece, heavily scored, its sections may be readily separated before installation.

THE VITAL REQUIREMENT

The features outlined here must be accompanied by a high factor of heat resistance or refractoriness (Cone 26), i.e. 1580°C. Experience has proved that the FIRECLAY grateback is unrivalled in its resistance to high and fluctuating temperatures.

Specify FIRECLAY GRATEBACKS to British Standard 1251

Gratebacks conforming to the stringent requirements laid down are now in production and are obtainable from:—

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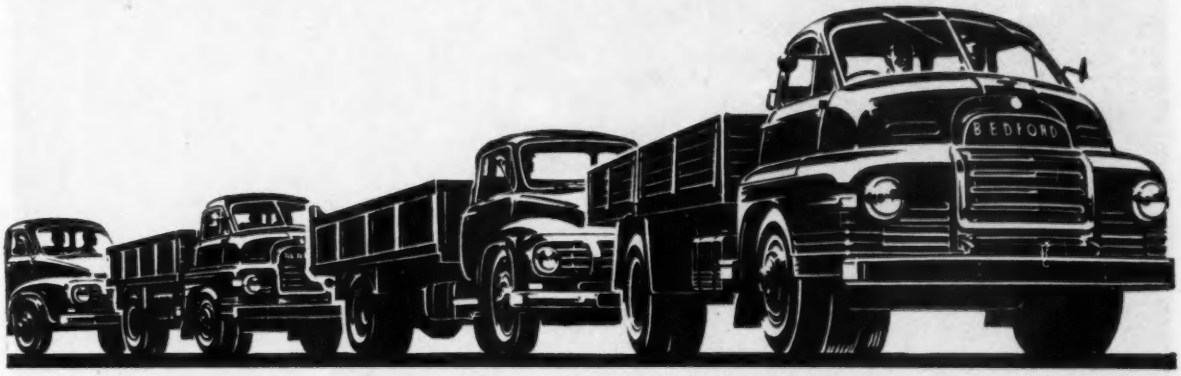

Bedford No. 1 British truck the world over
50,000 Bedford trucks built in 1959

Bedford No. 1 British truck the world over
Highest-ever sales in 1959

Bedford No. 1 British truck the world over
4 in 10 new British trucks are Bedfords

A great year, 1959, for the British Motor Industry. And right out in front, leading the leaders, is Bedford . . . . more firmly established than ever before as No. 1 British truck the world over.

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50,000 Bedford trucks built in 1959. A truck production record never achieved before by any British manufacturer.

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***4 in 10 new British trucks are Bedfords.** Latest figures for 1959 show that 39.9% of all new trucks built in Britain were Bedfords.

30,000 Bedford DIESEL trucks built in 1959. Diesel-engined models accounted for 60% of Bedford's 1959 production record.

On all counts Bedford sweeps the board . . . 43% of all buses and coaches registered in the 27/48 str. class were Bedfords. And Britain's best-selling light van comes from the Bedford stable too. Bedford van sales rose by 55% in 1959.

**Based on latest available Board of Trade statistics for first nine months of 1959, compared with Bedford production for the same period.*

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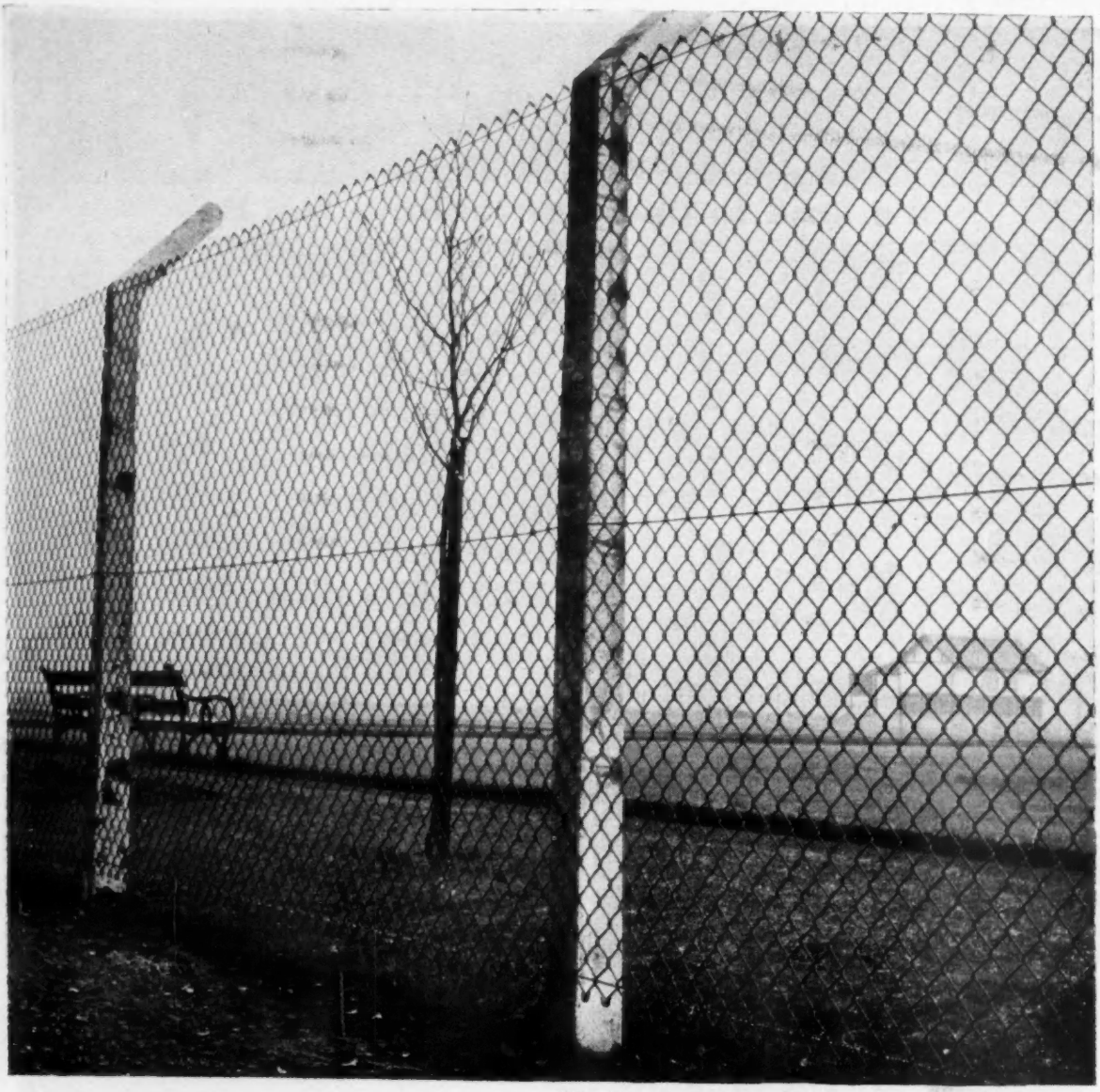

'Welvic' p.v.c. is used by Rylands Brothers Ltd., Warrington for the covering of the 'Rylastic' chainlink fencing round their own recreation club ground.

When you cover chain link fencing with p.v.c.

cover it with 'Welvic'

An increasingly popular use of 'Welvic' is in covering wire for chain link fencing. One of the companies who both cover the wire and make the fencing is Rylands Brothers Ltd., Warrington. The 'Rylastic' chain link fencing which surrounds their own recreation club ground is, in fact, covered with 'Welvic'.

Companies using 'Welvic' p.v.c. compounds can at any time take advantage of I.C.I.'s research and technical service, the finest of its kind in the country. Even if you are only contemplating the use of p.v.c., I.C.I. will be glad to hear from you, and will be glad to put their service at your disposal.

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'Welvic' is the registered trade mark for the p.v.c. compounds manufactured by I.C.I.

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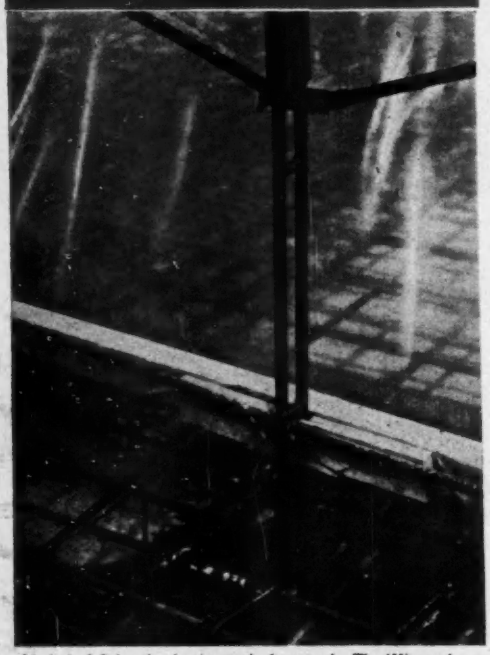
The shelters were in sections 12' long, 15' wide and 7' high. The framework was fabricated from 3" gas barrel and clad with 'Visqueen' 500 (heavyweight). Architects: Ley Colbeck and Partners.

'VISQUEEN'

TRADE MARK

polythene Building Sheet



Method of fixing the sheeting to the framework. The 'Visqueen' was wrapped round rough-sawn timber battens and nailed at intervals. These were then fastened to wood blocks already secured to the metal work.

Once again 'Visqueen' beats the weather

PORTABLE tunnel shelters were used by **Fassnidge Son & Norris Ltd.** to avoid the damaging effects of rain and frost to the grano-finish of the concrete load-bearing slab on a major extension to the Sanderson Fabrics factory at Uxbridge.

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Powered & Natural

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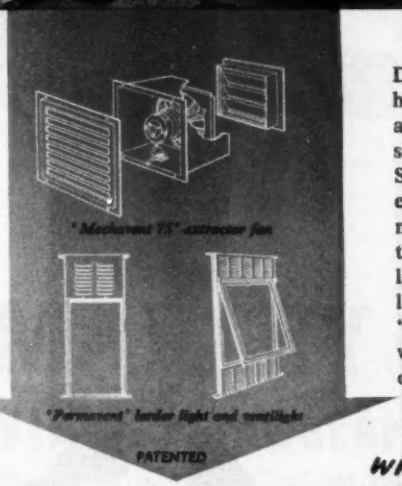
(above) 'The Cricketers,' Woodford—Architect: C. P. Sapin, (Chief Architect) McMullen & Son, Ltd
(left) photograph by courtesy of Turner and Kitching A/A.R.I.B.A., Gravesend

for Houses & Flats



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write for this new folder-to day!

Greenwood-Airvac *ventilation*

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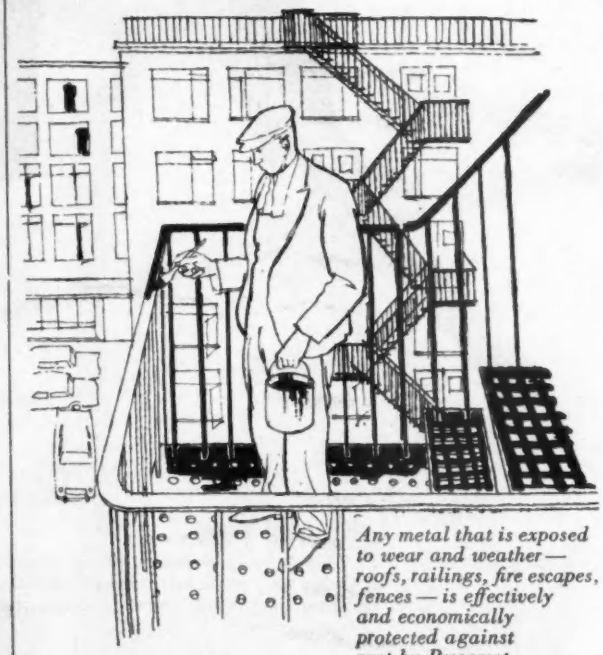

Any metal that is exposed to wear and weather — roofs, railings, fire escapes, fences — is effectively and economically protected against rust by Presomet.

A high-grade bituminous paint that *preserves* and *protects* metal surfaces—Presomet

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"Presomet" is a Registered Trade Mark

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Loadmaster hoists need no skilled labour. No site preparation required.

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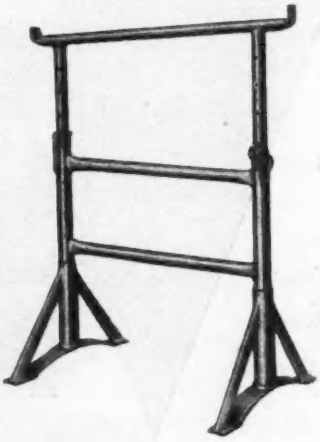
2	2 ft. 9 in. ,, ,, 4 ft. 6 in.	54
3	4 ft. 6 in. ,, ,, 6 ft. 3 in.	70
4	6 ft. 3 in. ,, ,, 8 ft. 0 in.	100



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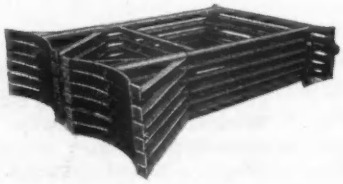

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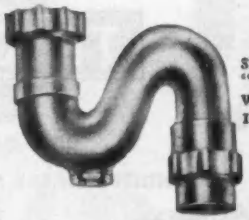

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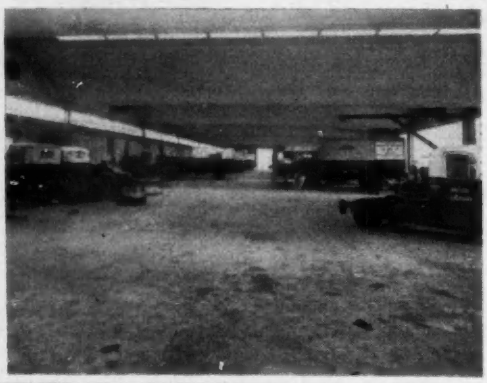

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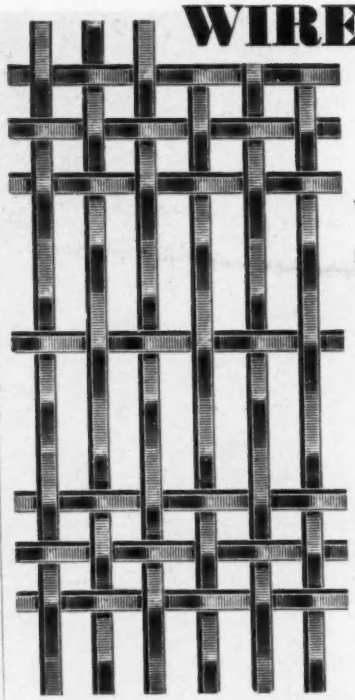

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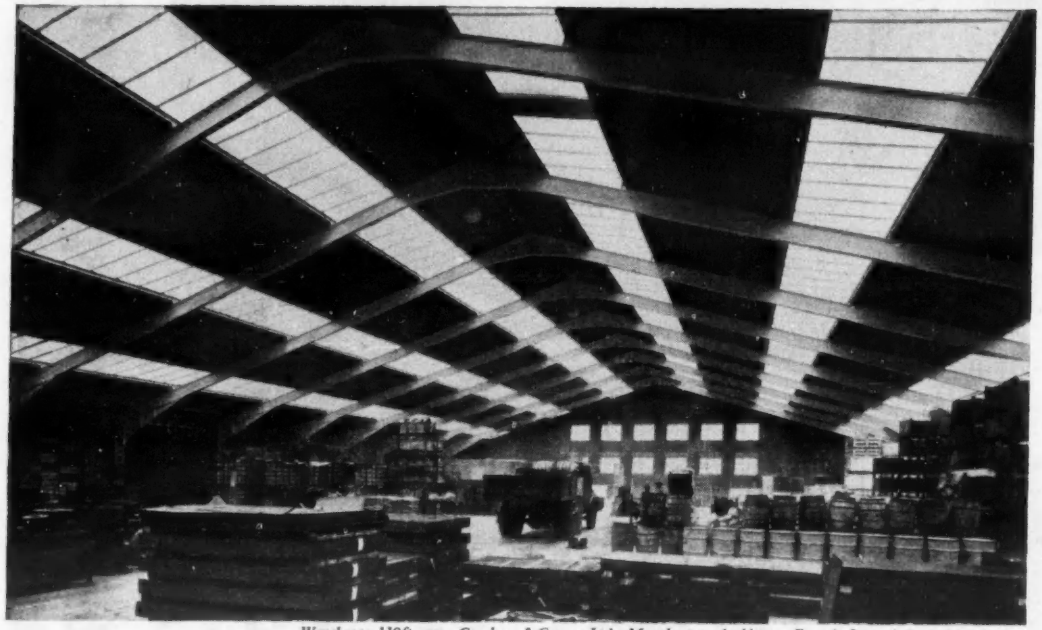

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P.2218

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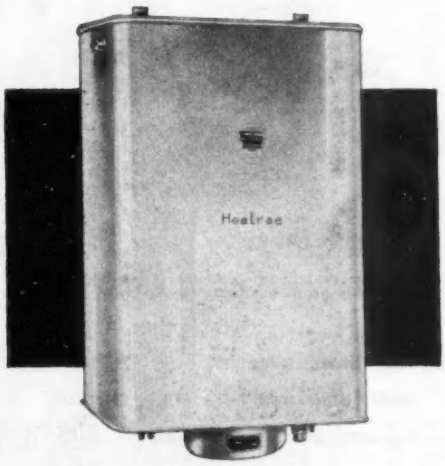

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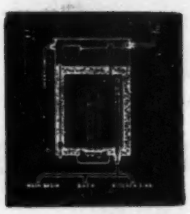

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Amersham

ALTERATIONS and EXTENSIONS

F. B. Pooley, F.R.I.B.A., County Architect
John C. Barker, A.R.I.B.A., Deputy County Architect
Albert E. Smith, A.R.I.B.A., Assistant County Architect

MAIN CONTRACTORS :

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'PUDLO' PROVIDES PROOF . . . No. 3 OF A SERIES

Underground story...

of Waterproofed Ready-Mixed Concrete

When, in 1958, the beer cellar of the 'Harp' public house at Parson's Mead, Croydon, was excavated for rebuilding, water was found to be present at a depth of only 3ft. 6ins. below the level of the upper surface of the old floor. To combat these inherently damp conditions 'Pudlo' CEMENT WATERPROOFING POWDER was specified for the READY-MIXED CONCRETE used in the new floor.

'Pudlo Waterproofer' was also used in the internal rendering of the outer walls and, to ensure complete protection from damp penetration, a 'Pudloed' cove was formed at the junction of the wall and floor.

TECHNICALITIES:

Floor

Area: approximately 1,250 square feet.

Composition: Waterproof Ready-Mixed concrete to 8" thick, with granolithic surface.

Mix: 4:2:1 reinforced with No. 8 B.R.C. fabric and waterproofed with 16 lbs. 'Pudlo' cement waterproofer per cubic yard of 'SURECRETE' Ready-Mixed Concrete.

Walls

Hard semi-engineering brick, to a thickness of 13½ inches.

Internal Rendering

Two parts Westerham Sand.
One part Portland Cement.
5 lbs. 'Pudlo' to every 100 lbs. cement, applied in three coats to a minimum thickness of one inch.

Beer Cellar of the 'HARP' Parson's Mead, Croydon. By Courtesy of Page and Overton's Brewery Ltd.

Architects: Leonard Chignall & Son, F.I.A.A., M.INST.R.A., M.R.SAN.I. Romford.
Contractors: Galbraith Bros., Crayford

'PUDLO'

CEMENT WATERPROOFING POWDER

other **'PUDLO'** *products include: Waterproof Cement Paints, Cement Paint Primer, Cement Bonder, External Water Repellent, Plaster Bonder, Frost Protector/Rapid Hardener, Mortar Plasticiser, Cement Hardener/Dust Proofer, 'Feusol' Fire Cement.*

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The Builder

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FCEC Boldness—and its Outcome

NOT LONG AGO the employment conditions on civil engineering work followed fairly closely, if sometimes reluctantly, those negotiated in the much larger building industry. A spectacular change, at least in attitudes of mind, seems to be reflected in an announcement by the Federation of Civil Engineering Contractors on January 21 that it has adopted, in agreement with trades unions: (1) a reduced working week of 40 hours for the four winter months November to February; (2) payment for the first two hours of overtime each day at time-and-a-half rates instead of time-and-a-quarter; (3) a general wage-increase of 1½d. per hour from February 29 next.

The explanations given for these decisions are that the reduced week is a response to 'the workers' desire for more leisure,' and that the other concessions are in compensation for the shortening of the winter week. These explanations would perhaps be more convincing if civil engineering did not habitually involve a great deal of overtime at all periods of the year, so that the real change appears to be a big increase in overtime earnings. The increased cost is further augmented by the raising of basic wage-rates, which incidentally takes effect on February 29 whereas the reduced week does not occur until next November. The immediate outcome is that in March, 1960, the earnings of unskilled workers in civil engineering will surpass those in nearly all the main industrial groups and even the earnings of many skilled men. There is also a certain irony in the changed attitude to overtime. Originally the premium rates were intended, at least by trades unions, to discourage what was called 'systematic' overtime (as distinct from emergencies) but in recent years they have become a factor in outbidding for labour.

In these days civil engineering and building operations are so often interlinked, especially in the larger types of construction project, that the building industry is bound to be affected by the new developments and must view them with mixed feelings. In some ways they may seem attractive to the many builders who have long complained that, for a few weeks in mid-winter, daylight hours are so short that building workers receive payments for some periods of semi-darkness—a difficulty diminished by modern facilities for artificial lighting. Many builders, again, have felt that work-hours lost, through bad light or bad weather, ought to be made up at other times—but not at overtime rates. The trades unions' rejoinder has hitherto been that such flexibility could be countenanced only if building workers had a firmer assurance of continuous employment—i.e., by engagement on a weekly or monthly basis. Another relevant factor is a widespread tendency towards a 5-day week and the consequent argu-

ment about the length of each working-day (8, 8½ or 9 hours) and about the complications arising from transport conditions and varying hours of daylight.

Because of these and other considerations, the civil engineering agreement will cause some furious thinking in the building industry and, with skilful leadership, may even help to solve some problems which, in present-day circumstances have become acute although stubbornly resistant to remedies. On the other hand it would be unwise to overlook some important differences between the two industries under modern conditions. Building in winter does now permit a larger amount of indoor work at fairly early stages of erection and artificial lighting is more readily available. By contrast, the opportunities for—and therefore the pace of—large-scale mechanisation have not been so great as in civil engineering, and it is noteworthy that FCEC have themselves emphasised that, because of their phenomenal mechanisation, labour costs now constitute a smaller proportion of their expenditure.

The FCEC express a hope that the increased labour costs can in time be absorbed. The possible effects on building costs are incalculable, but they cannot be ignored —certainly not by those large firms which have a dual allegiance. Paramount, however, is the obvious danger of giving an impetus to a new bout of general inflation. FCEC say that they have 'taken into account' the national need to keep prices steady. If, nevertheless, their hopes under this head were to prove illusory, they have a heavy responsibility and any tactical advantages will have been dearly bought.

Car Parking in London

THE REPORT made to the London County Council on Tuesday, that the general purposes committee has invited discussions with the Metropolitan Boroughs standing joint committee to urge its view that there should be a comprehensive plan for a phased provision of multi-storey garages in central London, is good news. The need for off-street garage space is certainly great; the Nugent Committee estimates that about 50,000 vehicles are daily parked on the streets of central London, and that the broad effect of clearing all parked cars off the streets except at parking meter stands might be to increase their traffic capacity by 15 to 25 per cent.

The economics of multi-storey parking have yet to be tested. The Nugent Committee estimated the average cost of accommodating a car in central London at about £1,500, the economic charge of which could well be 12s. 6d. or more a day. On the other hand, the sponsors of a scheme which received planning permission last week from the City Corporation* see no reason to suppose that charges for their mechanically-operated parking will differ materially from the normal London charges for under-cover parking. Clearly there is room for inquiry.

We should have preferred to see the discussions proposed by the LCC conducted against a wider background than that of mere provision of off-street parking and the financial matters involved, but the Council's view is that the need for a comprehensive system of car parks is so urgent that a 'shot in the arm' policy is needed, and that the Treasury should be prepared to make some contribution to the local authorities undertaking the initial financial risks. If local authorities are to become garage-operators, such contribution would seem equitable. But why not private enterprise? We believe that if the Minister of Transport will quickly formulate a traffic plan for London (which should involve keeping traffic out of the central area as well as disposing of it when it comes in) private enterprise would have data which might encourage it to play a big part in providing off-street parking. But it is not reasonable to expect it to do very much until the picture becomes clearer.

* This scheme, as also the LCC general purposes committee report, is referred to on page 229.

The Larger Planning

DURING THE PRESENT CENTURY many authoritative voices, from Howard to Holford, have been raised in warning against the dangers of urban sprawl. To those voices is now added that of Mr. Colin Clark, Director of the Agricultural Economics Research Institute, Oxford University, who, in a paper read on January 4 to the RICS (reported last week) prophesied that if we go on in the way we are now going the final result will be an ugly and planless dispersal of population spreading almost uniformly over a whole industrial zone—'perhaps in England an almost continuous built-up area from Liverpool to Dover, with most of the rest of the country impoverished and depopulated'; an example in economics, he added, of the unchecked operation of the free market not producing the most socially desirable results.

It is by no means certain that even with such an enormous and horrifying conurbation the rest of the country would long remain 'impoverished and depopulated.' One has only to read the reports of the amenities societies scattered up and down the country to realise that threats to comparatively remote areas are constant and increasing. It could hardly be otherwise in a small island such as ours, with the pressure upon it of an expanding industry, an increasing population, and the great growth of motor transport.

As Sir William Holford has recently pointed out, we are approaching a situation where the greater part of our land not already built up has a rarity value. The control and right direction of industrial and other development is vital not only to the country's prosperity but to the preservation of the remaining rural areas. Much has been done for rational development by legislation and by voluntary action. Obviously it is not enough. The whole problem needs the urgent attention of Parliament.

Notes of the Week

Canadian Architects in Britain; Roads : The Paramount Problem

Canadian Architects in England

THE PARTY OF 80 ARCHITECTS, engineers and town-planners who are visiting England by arrangement with the Dollar Exports Council have had an interesting if strenuous programme laid on for them, largely through the good offices of the Cement and Concrete Association. They are to be entertained on Monday next by the President and Council of the RIBA when they will have the opportunity of meeting a number of leading architects, some of whom have Canadian connections. These informal meetings are all to the good.

* * *

IN LONDON, too, though not with the visitors referred to, is Walter Manthorpe, Chief Town Planning Officer of Toronto, here on holiday and to get his children settled at school. Manthorpe was for some years in the planning department of the Architect's office at the LCC, and has been following the Monico site appeal with interest; he regards this inquiry as being the occasion for some changes in city centre development control, probably in regard to the planning law. Like most of us, he feels that control that will safeguard the public amenity as well as being fair to the developer must replace the present rather hit-and-miss procedure of giving planning consent.

* * *

MANTHORPE HAS INTERESTING NEWS of the Toronto city hall development which was won in competition (in spite of a strongly adverse minority report by two of the assessors, Gordon Stephenson and Sir William Holford) by Viljo Rewell. The scheme is going ahead, and the Toronto firm of John B. Parkin Associates has been joined with the winner, with the result that the estimated cost of the project has been reduced by nearly 20 per cent while retaining the winner's original conception. Many will regard this retention as a planning tragedy, for the open oyster-shell plan raised problems of lighting both for the users and for that not inconsiderable portion of down-town Toronto, which is affected by the cliff-like proportions of the office block. But it appears necessary for some to suffer that others may be architecturally happy.

Roads: The Paramount Problem

ASIDE FROM HOUSING, schools and the need for more hospitals, the most urgent task confronting us during the next decade is the solution of the traffic problem, especially the dangerously congested areas in and out of our great cities. It would be a gross understatement to say that the situation is serious, indeed the number of motor vehicles is increasing at such an alarming rate that if positive action is not soon taken the matter will get so out of hand that restrictions on the use of private vehicles will become necessary.

A great deal has been written and much has been said ; plans and ideas have been put forward and either deferred or rejected. The recent statement by the British Road Federation, 'that no new scheme of similar magnitude was ready in time to absorb the energies and skills which made the M1 what it is,' is indicative of the half-hearted support from higher authority. The Federation blames this wasteful dispersal of men and machines upon the inadequate volume of capital investment available for the road programme.

A proposal for an elevated motorway as one solution to the traffic congestion on the main roads in and out of cities, once again spotlights the problem and provides evidence that both commercial enterprises and the professions are fully aware of their responsibilities in the matter. Various designs are the result of a competition promoted by the Prestressed Concrete Development Group on lines suggested in 1958 by the former Minister of Transport.

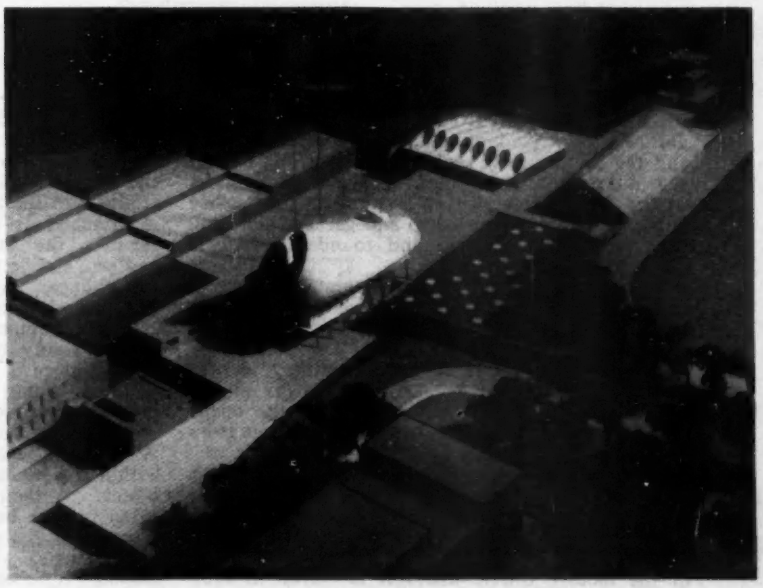
The basic idea is an elevated motorway without intersections and with an imposed speed limit of 50 miles per hour. The motorway, which is carried on central pillars above existing roads, would have two carriageways cantilevered out from the central supports. The use of prestressed concrete units would enable it to be constructed without affecting the flow of traffic below. The scheme, which would cost £1¼m. a mile, will be shown to Mr. Marples. Let us hope that this initiative will add impetus to the already strong degree of public opinion and help to precipitate ambitious action.

Clay Products in Houses

UNDER the title 'The Choice is Yours,' the Clay Products Technical Bureau has produced a most attractive booklet for circulation among potential houseowners, stressing the desirability and beauty of clay products in house construction. Well illustrated by photographs, technical drawings, and some amusing sketches by David Langdon, it sets forth in a most interesting manner the advantages of bricks and tiles for exteriors, of salt-glazed pipes for drainage, of clay floor quarries for kitchens, etc., of ceramic glazed fireclay for sinks and wash-basins, of sanitary earthenware and vitreous china, of burnt clay chimney pots and flue linings, and of ceramic glazed tiles for kitchens and bathrooms. Copies of the booklet are obtainable through booksellers, price 1s., or direct from the Clay Products Technical Bureau, Drayton-house, 30 Gordon-street, London, WC1.

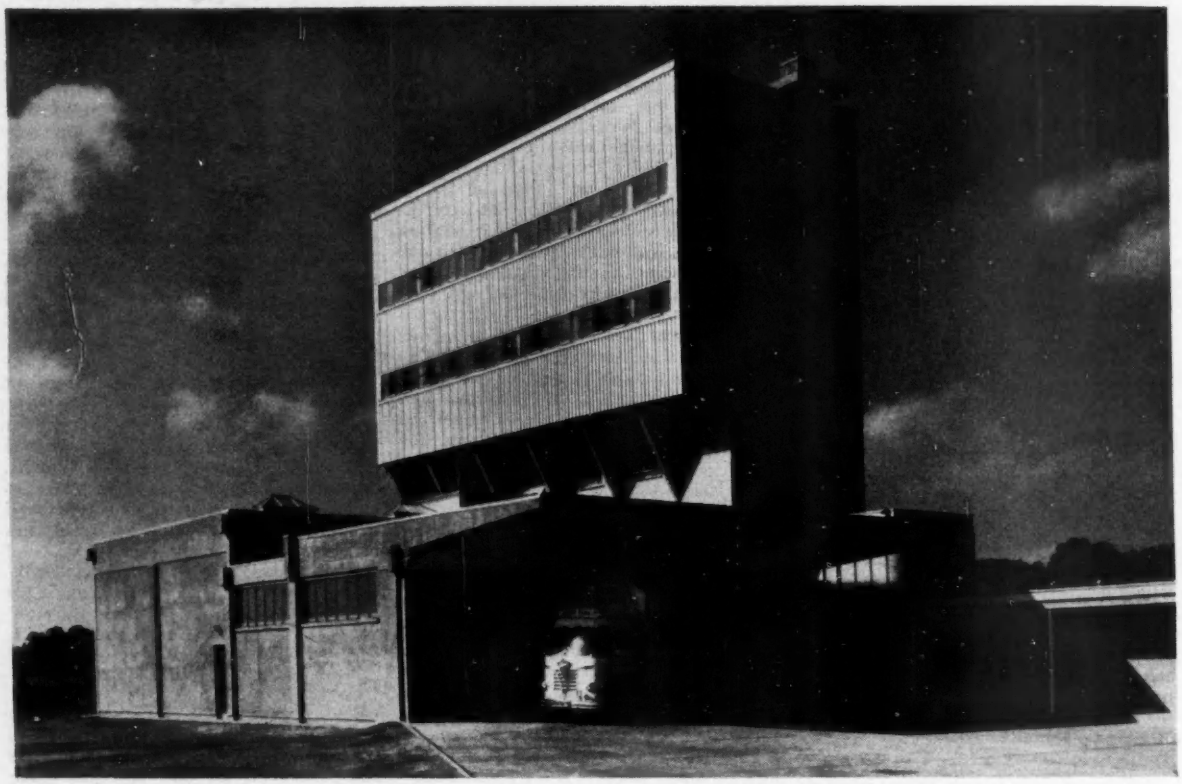
The Cost of Office Buildings

THE REFERENCE to the cost of office buildings in London in recent years given in the leading article last week, should have read 'between 4s. and 20s. per cubic foot.'



Birmingham University Physical Education Centre : photograph of a model from the south-east overlooking the University Refectory showing the swimming bath poised above the entrance forecourt and the barrel vaulted roof to the Sports Hall beyond. The architects are Messrs. Chamberlin, Powell & Bon. The project is estimated to cost £550,000 ; work is to start this year and it is hoped that the first part will be ready for use by 1962.

Prepacked Flour Factory, Bristol



The aluminium clad factory tower, and loading bay

THIS NEW FACTORY for the Victoria Flour Co., Ltd., is sited at the outskirts of Bristol on the main roads to Bridgwater and Weston-super-Mare. Entirely new packing plant has been installed, and the factory now replaces the previous eighty-year old premises in Bristol. There are three parts to the development, a multi-storey factory, office block, and vehicle workshop and garage. The site is reclaimed marsh land and foundationwork is 40 ft. piling.

The factory tower has five floors with a total height of 68 ft. A feature of the design is that front and rear walls are clad in aluminium panels, backed by lightweight infilling. The panels are removable from inside so that machinery can be moved in on any floor. The floors are timber sandwich construction, which allows large openings to be cut for extension to the equipment from one floor to another.

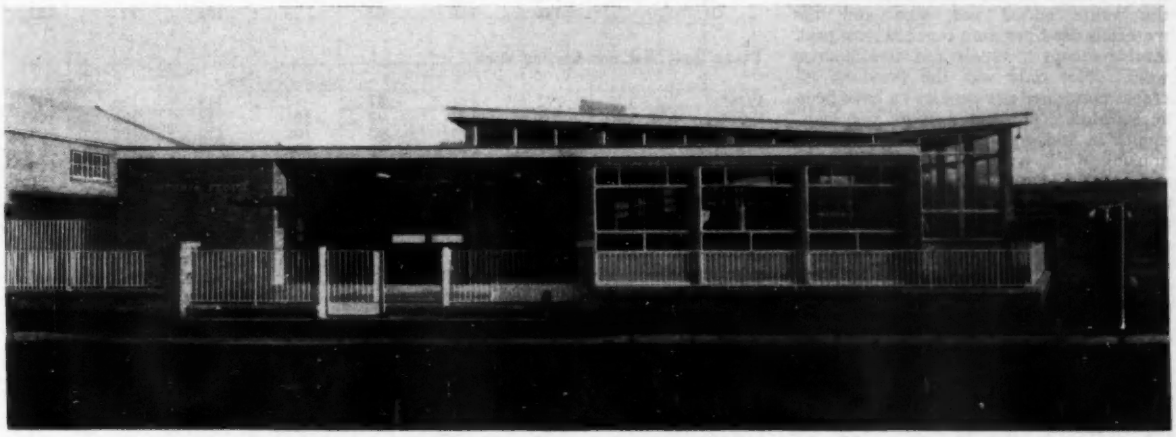
All stages of production are automatic and begin with the bulk delivery of flour from the mills in lorries of 15-tons capacity. This does away with the need for sacks and contributes greatly to hygiene. The flour is blown to the fourth storey of the factory tower, where it is stored in four bins, each holding 20 tons. It takes about one hour for each lorry to discharge its flour cargo in this way. The level in the bins can be checked at the point of intake from a control window panel. By a constant rate feed, flour and other ingredients pass from the fourth floor to the third where they are automatically and accurately weighed for correct blending. On the second floor, the ingredients are mixed and sifted through double screens; on the first, the product is purified in centrifugal machines called entoliters. Finally, on the ground floor, the flour is handled by automatic weighing and packing machines. At this point, the packed flour is carried on stillages (small trolleys) to the loading bay.

Attached as a single-storey wing to the main factory, the staff block contains the factory canteen, the first aid room, toilet facilities and the boilerhouse. An oil-fired boiler heats both factory and office blocks; water is heated by independent electrical equipment. The administrative section has a butterfly roof for even light distribution. The general office is placed centrally, and round it are grouped rooms for the secretary, cashier, cost accountant, advertising and despatch executive, a strong room and a printing and stationery store. A directors' suite has been arranged separately within the building, but closely connected to the offices. A demonstration cookery room is provided for the benefit of visitors.

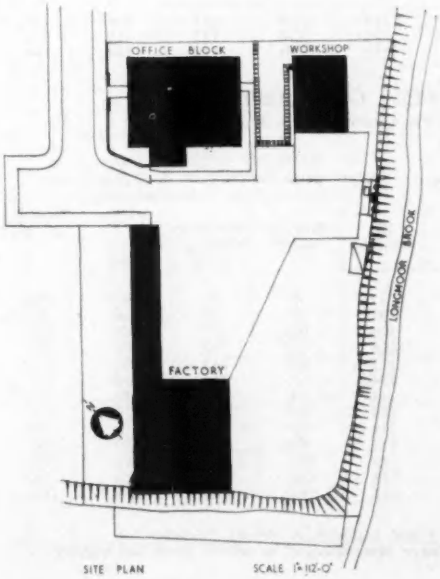
Sub-Contractors & Suppliers:

Asphalt roofing: Asphalte Specialists Ltd.; *aluminium cladding:* Robertson Thain Ltd.; *roller shutters:* Hall Engineering Ltd.; *ironmongery and gates:* Metal Agencies Co. Ltd.; *steel windows:* F. & R. Edbrooke Ltd.; *patent glazing:* Mellowes & Co. Ltd.; *flour packing machinery:* Brecknell, Dorman & Rogers Ltd., of Bristol; *piling:* Nott, Brodie & Co. Ltd.; *structural steelwork:* Welding Construction Co.; *reinforcement steel:* Guest, Keen & Nettlefolds Ltd.; *terrazzo:* Marble Mosaic Co. Ltd.; *office floors:* Artistic & Industrial Floorings Ltd.; *factory floors:* Prodorite, Ltd.; *heating and plumbing:* Arthur Scull & Son Ltd.; *electrical:* R. Whipp & Co. Ltd.

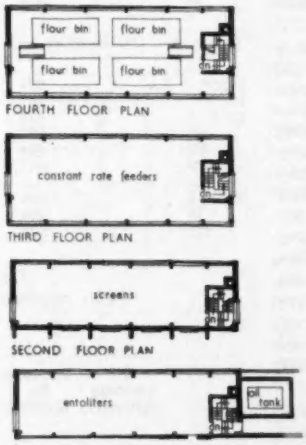
Architects:
IVOR DAY & DAKIN
Consulting Engineers:
CLARKE, NICHOLLS & MARCEL
Quantity Surveyors:
BERNARD & SON
Clerk of Works:
E. J. TONKIN
General Contractors:
NOTT, BRODIE & CO., LTD.



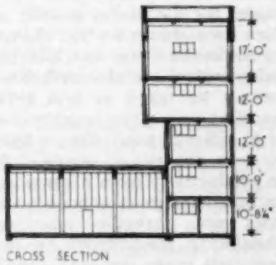
Administrative offices



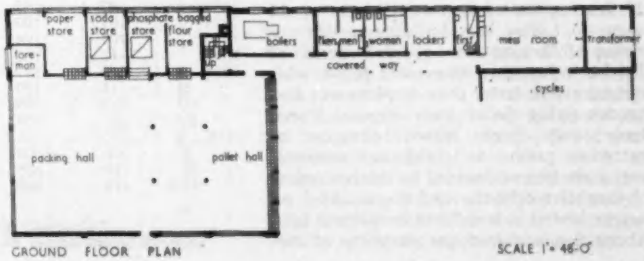
SITE PLAN SCALE 1"=112'-0"



FOURTH FLOOR PLAN
THIRD FLOOR PLAN
SECOND FLOOR PLAN
FIRST FLOOR PLAN



CROSS SECTION



GROUND FLOOR PLAN SCALE 1"=48'-0"

Productivity and Prices

'The Builder' Quarterly Analysis of Trends

Specially prepared for 'The Builder' by Professor C. F. Carter, Stanley Jevons Professor of Political Economy, University of Manchester, and a former member of the Girdwood Committee on the Cost of Housing, from statistics kindly supplied by the Ministry of Works (Statistical branch).

THE MOST IMPRESSIVE FEATURE of the statistics recorded this quarter is the further increase in productivity. In the hot dry days of the third quarter, both the value added per man and the materials used per man reached new peak levels—except in repair and maintenance work. Not only was the previous increase continued: it appears to have been accelerated. The net outputs per man-month in housing work and in new non-housing work were ten per cent above their levels of a year before. Since the numbers employed have also been rising, the volume of output showed a considerable further rise, and for housing it was probably some 13 per cent higher than a year before.

Some of the credit for these achievements must certainly go to the weather, though parts of the summer were too hot to encourage maximum effort. But it is stimulating to find the statistics confirming the general impression that the industry is going through a phase of lively advance. It is also interesting to speculate on who gets the benefit of the higher productivity.

The Ministry of Works output price indices did not show the hoped-for fall in the third quarter, and our own estimates for the fourth quarter have therefore been shown as 'no change.' Owing to the indirect way in which these output price indices are obtained, however, they cannot be taken as firm evidence that building prices are roughly constant; for it is difficult, until after a lapse of time, to sort out minor seasonal fluctuations in productivity from a genuine long-term increase, and in consequence the Ministry does not normally take account of changes in productivity (in the form of materials usage per man) until they are confirmed by a year's figures.

Nevertheless, common observation suggests that building prices are as resistant as other prices to the Chancellor of the Exchequer's appeals for reductions. If this suggestion is true, then it would seem to follow that building profits are rising—following the general trend of British industry in its present phase, with output rising faster than employment and profits rising faster than wages. There have only been minor changes in materials prices, and (although earnings may have been increased by the operation of incentive schemes and the working of longer hours) it is difficult to believe that labour has acquired the majority of the

TABLE A.—OUTPUT OF THE BUILDING AND CIVIL ENGINEERING INDUSTRY IN GREAT BRITAIN (excluding direct work of Public Authorities)

	Actual value of gross output	Values at 1955 average prices			Indices, 1955 (average) = 100 (constant prices)		
		Gross output	Net output	Input of materials	Gross output	Materials input per man-month	Net output per man-month
	£ mn.	£ mn.	£ mn.	£ mn.			
TABLE 1.— *New housing work*							
1956*	142	135	60	75	99	105	103
1957*	138	130	58	72	95	109	109
1958 I	125	117	52	65	85	111	108
II	132	122	53	69	89	117	110
III	131	122	54	68	89	113	111
IV	130	123	54	69	90	119	114
1959 I	132	127	55	72	92	124	117
II	140	**132**	59	**73**	97	121	118
III	**146**	**140**	**62**	**78**	**102**	**127**	**122**
TABLE 2.— *New non-housing work*							
1956*	192	184	87	97	119	106	107
1957*	208	192	91	101	123	106	108
1958 I	**210**	190	90	100	122	106	107
II	221	196	92	104	127	108	107
III	228	202	94	108	130	111	108
IV	228	206	95	111	133	115	111
1959 I	225	206	95	111	133	117	114
II	**239**	**217**	101	**116**	**140**	118	116
III	**243**	**222**	**103**	**119**	**143**	**121**	**119**
TABLE 3.— *Repair and maintenance work*							
1956*	100	93	63	30	101	107	101
1957*	101	90	62	28	98	105	100
1958 I	99	89	60	29	97	110	101
II	104	90	62	28	98	104	100
III	105	90	63	27	99	101	100
IV	107	94	64	30	102	110	101
1959 I	107	94	64	30	103	111	101
II	**117**	**100**	65	**35**	**109**	115	101
III	**118**	**100**	**67**	**33**	**109**	**115**	**101**
TABLE 4.— *All building and civil engineering work*							
1956*	434	412	211	201	107	107	104
1957*	447	412	212	200	107	108	106
1958 I	434	396	202	194	103	109	106
II	457	408	207	201	106	110	106
III	464	414	211	203	108	110	107
IV	465	423	213	210	110	115	109
1959 I	464	427	214	213	111	118	111
II	**496**	**449**	225	**224**	**117**	118	112
III	**507**	**462**	**232**	**230**	**120**	**121**	**114**

TABLE B.— PRICE COMPARISONS
Index numbers (1955 First Quarter = 100) of the prices of:

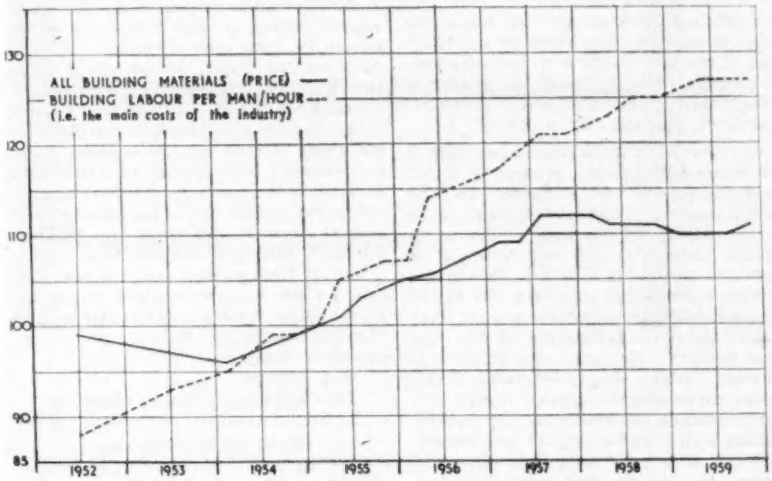
	All building materials	Materials for housing	Building labour per man-hour	Output price indices: All building	Output price indices: Housing work	Output price indices: New non-housing work	Manufactures, 'wholesale' price index	Retail prices
1953* ...	97	96	93	97	97	97	99	96
1954* ...	97	97	97	97	97	98	100	98
1955* ...	102	102	104	103	103	103	101	102
1956* ...	107	106	113	108	108	107	106	107
1957* ...	111	109	119	112	109	112	109	111
1958 I	112	109	122	114	111	114	110	113
II	111	109	123	114	110	114	110	115
III	111	108	125	114	110	115	110	114
IV	111	108	125	114	109	114	110	115
1959 I	110	108	126	113	108	113	110	116
II	110	108	127	113	108	112	110	115
III	110	108	127	**113**	**108**	112	110	115
IV†	**111**	**108**	**127**	**113**	**108**	**112**	**110**	**116**

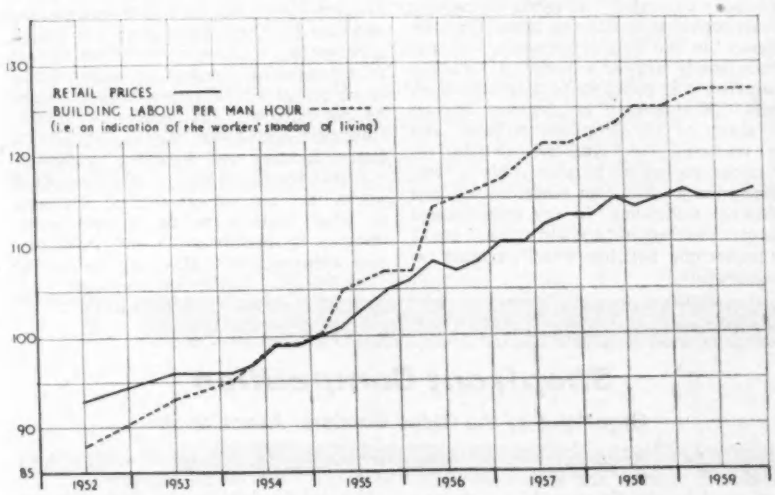
* Quarterly average. † Not Ministry of Works estimates.
In both tables figures in **bold type** have been changed or added since last quarter.

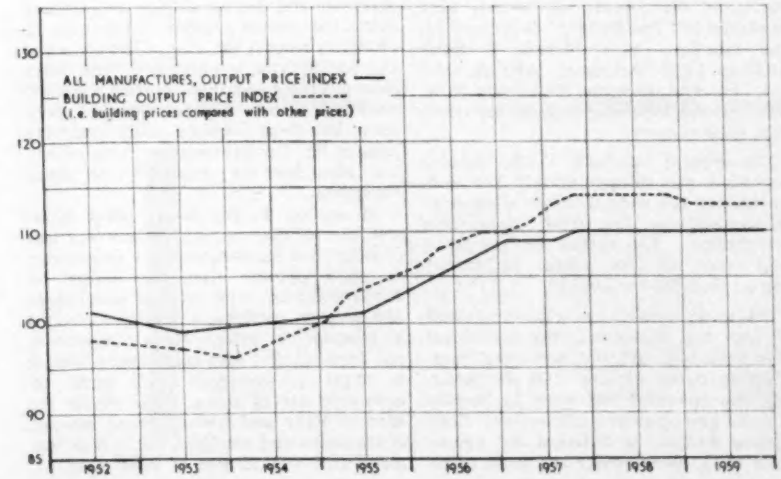
fruits of the latest increases of productivity.

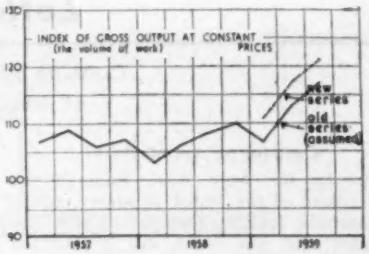
Certain overheads will have risen with increased mechanisation; but it looks as though there has been room for a good rise in profits as well. It will be interesting to see if later scraps of information confirm this impression.

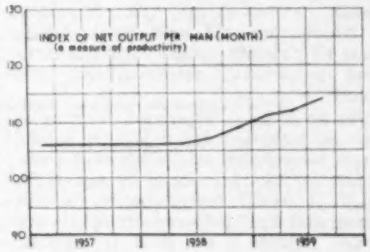
Although people are apt to generalise about the high profits earned in building, having observed one successful builder, there is no evidence (as far as I know) that building profits in general have been particularly high. The latest rise may be beneficial, by making it easier for firms which find it difficult to raise capital to modernise their equipment. But if the rise in productivity is further confirmed and extended, the time must be coming when it will be difficult to resist other claimants for the benefits: and there are many who hope to see, at last, a modest fall in prices.











The recovery in housing output is now virtually complete; the index of gross output for the third quarter was back to the 1956 level. The level of new non-housing work cannot be compared with levels before 1957, because of the break in the statistics (reported last quarter) caused by the addition of the erection work of constructional engineering fir.ns; but it is fairly clear that output in this sector is buoyant. The break should be only nominal for repair and maintenance, and here exceptionally high levels are shown; it will be interesting to see what reasons for this emerge.

The index of retail prices continues to show an uneasy stability, with (perhaps) a slight tendency to rise; but the price index for the output of British manufacturing industry sold on the home market shows a magnificent steadiness at 110 per cent of the level at the beginning of 1955. There have been enough price reductions to balance the occasional inevitable price rise. The stability is, of course, greatly helped by a relatively low level of raw material prices, which may now be coming to an end.

It is possible that Britain will be forced, by the rises in interest rates and the stiffening of credit conditions which have occurred in many other countries, to go back to some degree of credit restriction, despite the fact that employment is not yet over-full and inflation is not yet considered a grave menace. Such a change might be a considerable disturbing influence for the building industry; until the situation is clearer, it would be unwise to be too optimistic for 1960.

Letters to the Editor

Curtains on Architecture ; Research Ahead of Practice ; Wren as Prefabricator

'Curtains on Architecture'?

SIR,—In his New Year message the President of the Royal Academy, whilst cheerfully looking forward to the new aspect that our cities and countryside will acquire from the use of new techniques, reminds us that 'the old values' in architecture still hold good. Among these he classifies 'skilled craftsmanship, good proportion, neighbourliness and beauty.'

Far be it for a layman to question so high an authority, but I wonder should beauty be regarded as an element of architecture (or for that matter of any of the arts)? I would regard beauty as the climax and final achievement of a work of art. Beauty is not used, it happens. Perhaps that is what Sir Charles Wheeler intended when he put beauty at the end.

It is the function of the artist to take a diversity of elements and by a process of imaginative gathering-together—or coalescence—to produce a climax of harmony, a climax which is in a large measure unity. Out of diversity a satisfactory unity—that is how I see beauty born. But beauty from human hands does not produce itself by chance; it is conceived by the artist.

The artist and the craftsman may or may not be one and the same person, but skilled craftsmanship is an element in all the arts. For the pictorial artist the dual role is necessary; he must take various colours (the diversities) and by his own skill coalesce them by brushwork to produce his climax; success in this produces beauty. Likewise the literary artist; he uses the same diversity of words as you or I, but only *his* imagination arranges them in sequence and cadence to produce poetry.

The musician and the architect are in the other category. Their imaginative gathering together of elements need only be indicative; another hand can perform the physical function required to produce the finished work of art. In music the other hand must most often be an artist's also, if the full beauty is to be portrayed; in architecture, however, it is almost always through the employment of skilled craftsmen that the climax comes.

Sir Charles Wheeler mentions 'skilled craftsmanship, good proportion, and neighbourliness' as elements in the development of good architecture; there is also colour, and the sense of the use of diverse materials, and the handling of light and shade. It is curious that in the present following of fashion in the use of 'curtain walling' architects should have largely deprived themselves of this last vital element. Nowadays if a building is 'massed' aright, this is becoming a sufficient expression of exterior climax. In commenting on the PRA's message in your leading article of January 15 you remark that the architect 'must find ways and means of proving that efficiency and beauty in the building sense are terms not mutually exclusive.' It seems to me that if an architect is also an artist his 'efficiency' in the play of elements will produce beauty without a doubt. If he is not an artist it is going to be a chancy business. Moreover, if he deprives himself of much of his elemental material, and in particular so vital an element as chiaroscuro, whilst he may achieve 'efficiency' in a utilitarian sense, he will not achieve 'sufficiency' in any architectural sense. The loss of 'the old values' could thus become equated with 'curtains on architecture.'

S. W. HOOKWAY [FRICS],
Bristol.

'Heavens! Someone's hit the jackpot!'

'Research Ahead of Practice'

SIR,—A short while ago you re-printed in your excellent newspaper the BRS Digest No. 128 on dry lining system.

I have for a long time interested myself in a rather similar method but found that it was not quite as simple as one would expect, especially with the joints which cannot be completely disguised. In view of what the Digest stated about using recessed or tapered boards I decided that I would try out their system and I wrote to a company mentioned in the digest to ask them to send me the spreader boxes as illustrated, but to my surprise they have written me back to say that these are not yet in production and in fact they are still waiting for a licence from The Building Research Station to manufacture.

It does seem to be a complete waste of time for the Research Station to put out such a Digest only for the reader to find that he is unable to follow the advice suggested by them.

W. J. LATHAM,
The Highworth Building Company,
33 Swindon-street, Highworth, Wilts.

Wren as Prefabricator

SIR,—Chapter XV of Macaulay's 'History of England' contains the following sentence: 'It was known that his [King William III's] camp furniture was making and that Sir Christopher Wren was busied constructing a house of wood which was to travel about, packed in wagons, and to be set up wherever His Majesty might fix his quarters.' The authority for this statement is given as 'Narcissus Luttrell's Diary, January and February' [1690].

I have consulted two or three standard works on Wren but can find no reference to what appears to be a very early instance of prefabricated and demountable construction. Has any reader of 'The Builder' further information?

G. J. HOWLING [HON. ARIBA],
Wimbledon.

Shopfront Competition

Organised by the Glass Benders' Association

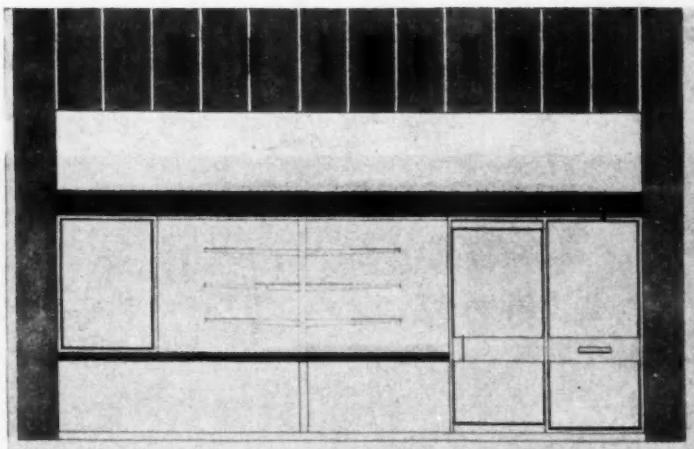
WINNING DESIGNS in the two-part competition for a small and large shop-front, sponsored by the Glassbenders' Association, are illustrated on the facing page. Details of the competition awards were published in 'The Builder' of January 15. The assessors were Messrs. J. Reid, ARIBA; Fello Atkinson, ARIBA; and L. R. Percival, director, Pilkington Bros. Ltd., and the following extracts are taken from their report:

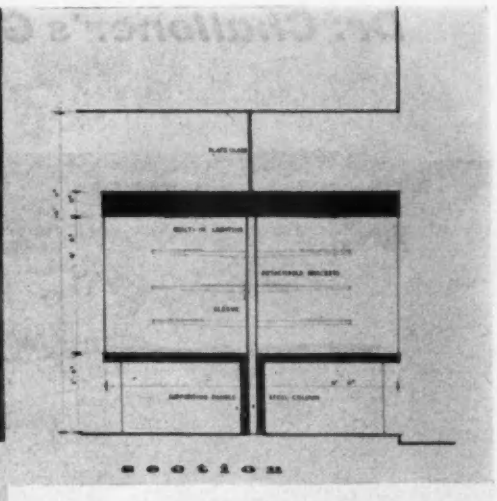
The general standard of the designs submitted was disappointingly low and, considering the wide freedom allowed to the competitors, few fresh ideas were forthcoming. The entries for the small shop were, on the whole, of greater interest than for the larger.

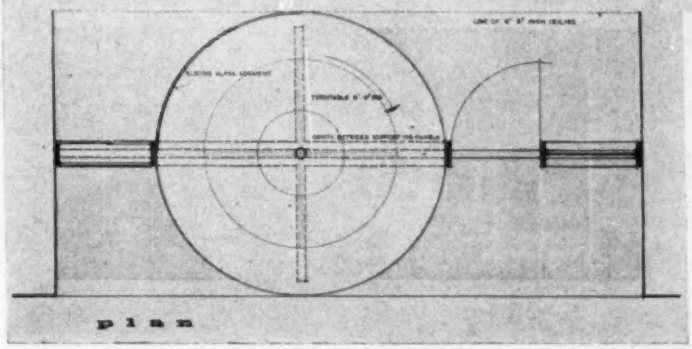
The most successful workable schemes fell into two categories, the cylindrical glass windows, and the horizontal non-reflecting curve window. Of the latter, only one (awarded 3rd prize in Section A) made any original contribution. Both winning designs, in different but appropriate ways, made bolder and more original use of the cylindrical window idea than any other design submitted.

Leonard Daniels, in his winning design for the small shop front, achieved a considerable and flexible display area and an attractive design without appearing to crowd or restrict the shop. The ceiling of the display area is perhaps a little lower than desirable and in its present form the window presents internal cleaning problems; but these could be easily overcome and, as Mr. Daniels suggests in his report, the idea has the possibility of many variations.

In section B, the larger shop front, selection of the winning designs was less obvious, but the Assessors are unanimous in their opinion that the design by Richard Burley, with its bold and simple use of glass cylindrical windows, should be awarded 1st prize. Many competitors put forward this idea but none achieved so clear a statement with such an economic use of space. The design by Messrs. Vane and Baker, placed second, is attractive and practical, but it does not make any original use of bent glass.



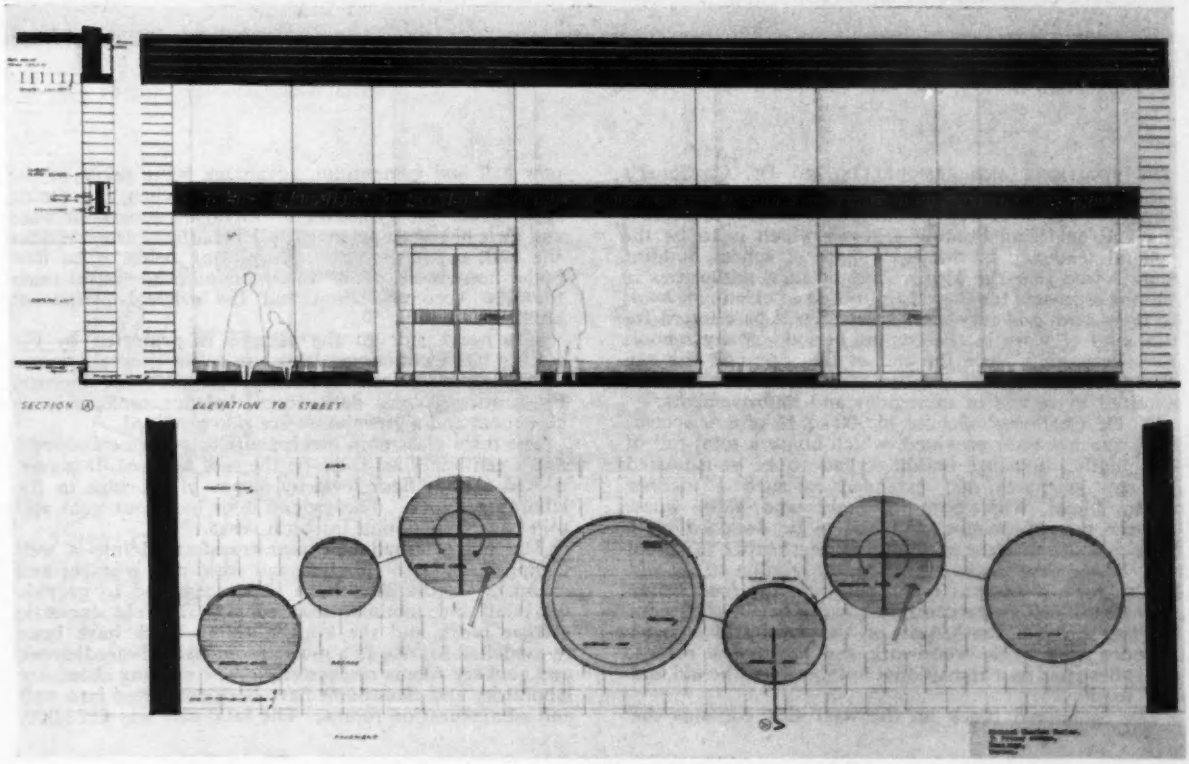




Winning design in section (a) for a small shopfront, submitted by Leonard Daniels, Dip.Arch. ARIBA, FRSA. The cylindrical display window has four sections, of which one is a sliding segment for access. The showcase floor rotates to allow easy window dressing

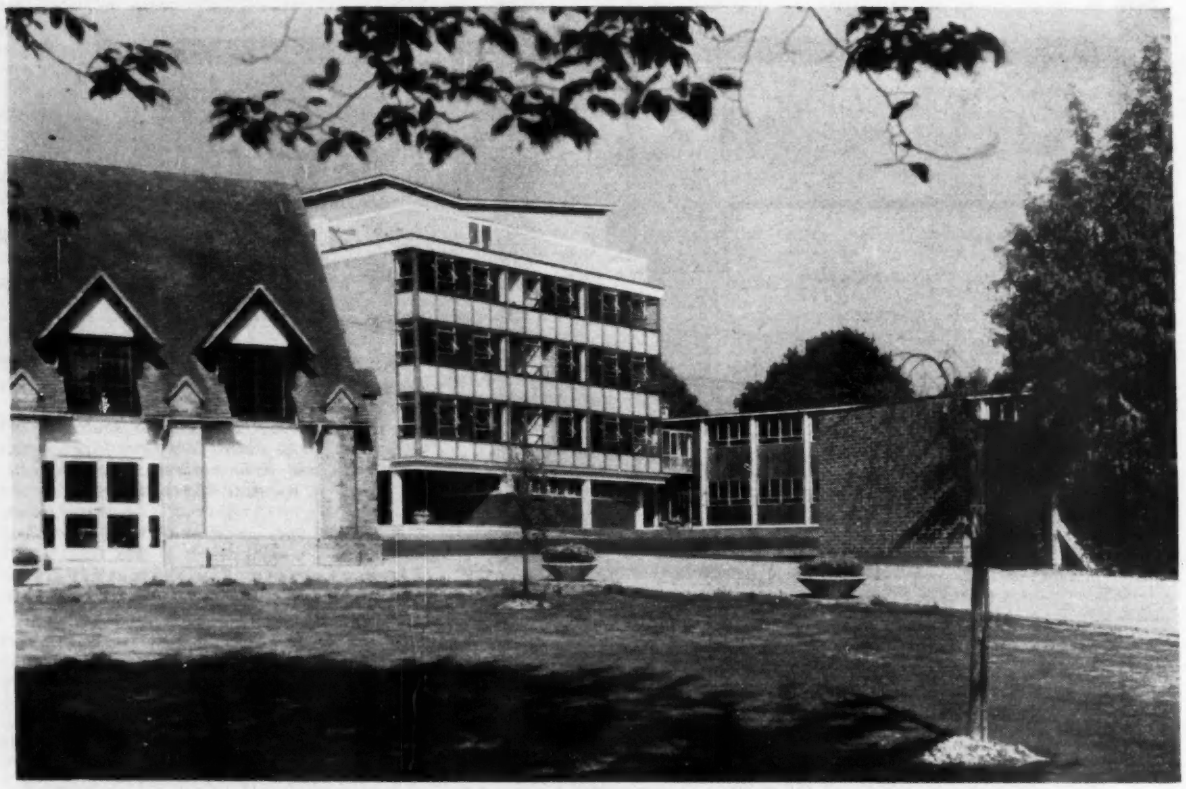
Shopfront Competition

Winning design in section (b) for a large shopfront, submitted by Richard Charles Burley



Dr. Challoner's Grammar School, Amersham

For Buckinghamshire County Council



The converted library, and new classroom block beyond

THE ADDITIONS AND REMODELLING to Dr. Challoner's Grammar School, Amersham, are an example of the change of emphasis from building new schools to improving and enlarging existing schools, which is to be the general tendency in the next phase of school building work. Last year the MoE requested local authorities to submit estimates for the rehabilitation of existing schools in their area, and increased finances will be allotted for this kind of work in the coming period. Many schools have been built since the end of the war, and the aim now is to provide the number of school places that are required by means of extensions and improvements.

At Dr. Challoner's School 42,000 sq. ft. of new accommodation has been provided, which house a total roll of 540 pupils. Existing buildings had to be re-modelled for new purposes and extended in such a manner as to blend with both the old and new work, and the new accommodation had to be designed on a restricted site with the minimum of interference to school life. Three new blocks are placed in relation to the old hall to form a campus type plan with the four storey classroom block as the central focus. The old classroom building on the south side of the campus has been extended to provide woodwork and metalwork rooms, and is designed as a transitional link between the old and new work.

The communal block on the west side contains the new hall and gymnasium, advantage being taken of the fall in the site to provide the new kitchen and dining room under the gymnasium. Changing rooms for boys and girls have been planned to be readily accessible from the hall, gymnasium and the playing fields. The new boiler house with a fully automatic oil-fired system heats the new accommodation and the original permanent buildings.

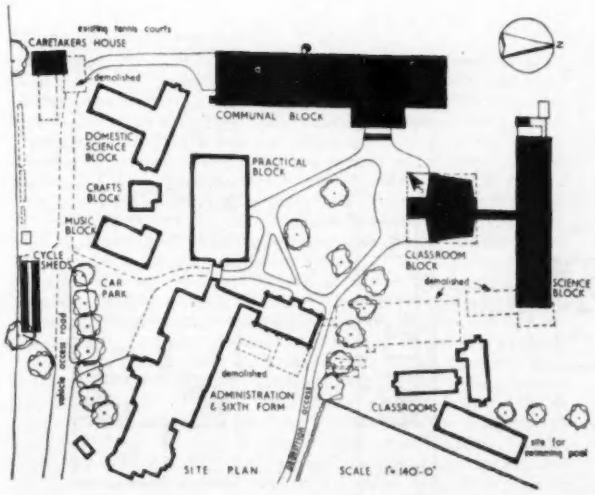
The north side of the campus is protected by the science block containing laboratories for general science, chemistry, advanced chemistry, physics and biology. Preparation rooms, dark room, balance room, science classroom and a greenhouse are also provided.

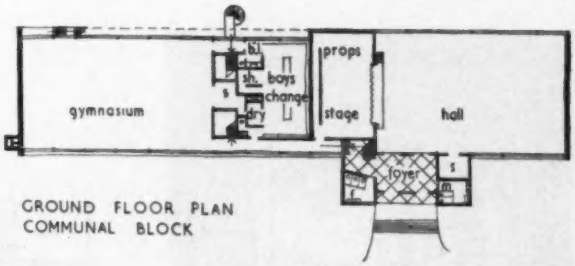
The main classroom block contains twelve classrooms and a penthouse art room on the roof terrace. It is connected at first floor level by means of a bridge to the laboratory block. The ground floor has cloakroom and toilet accommodation for both sexes.

The old gym-hall has been transformed into a well equipped modern library and the old science and chemistry laboratories have been converted to provide new staff and administration rooms. The old domestic science block and the kitchen-dining block have been re-modelled for use as a music room and the needlework and cookery rooms respectively. The existing chemistry laboratory and classrooms have been converted into staff and administration rooms. The total cost was £172,000.

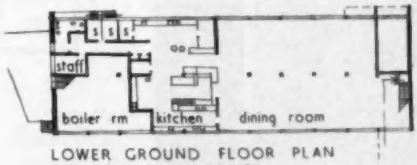
F. B. POOLEY, FRIBA, county architect
JOHN C. BARKER, ARIBA, deputy county architect
ALBERT E. SMITH, ARIBA, assistant county architect
A. E. A. PROWTING, LTD., general contractor

Entrance to the new communal block



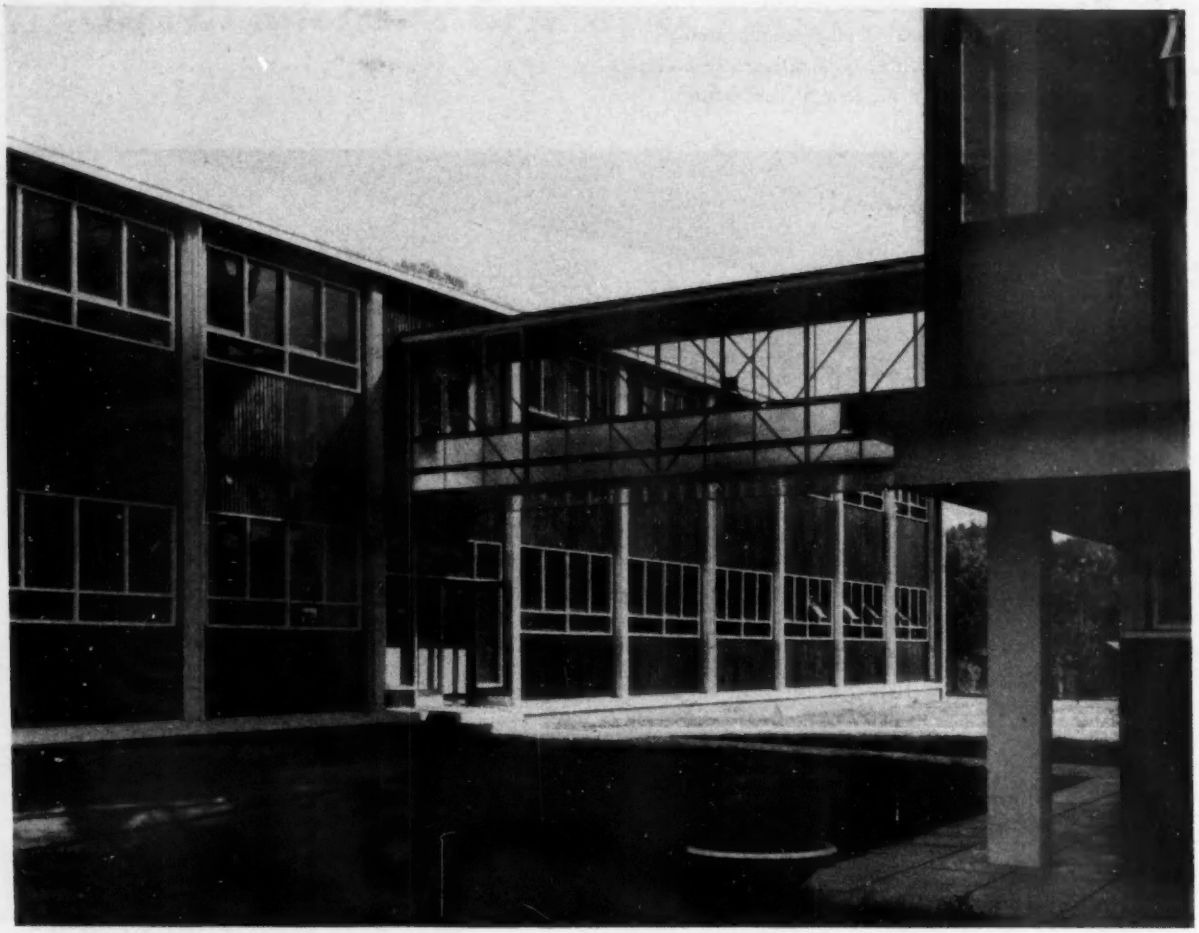


GROUND FLOOR PLAN
COMMUNAL BLOCK

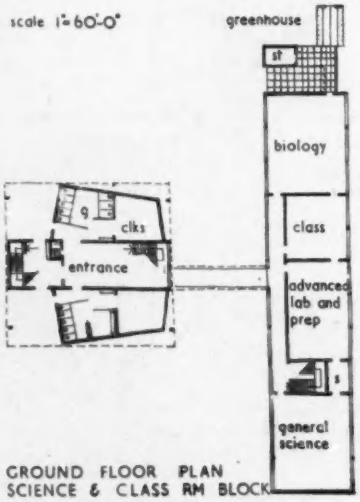


scale 1" = 60'-0"

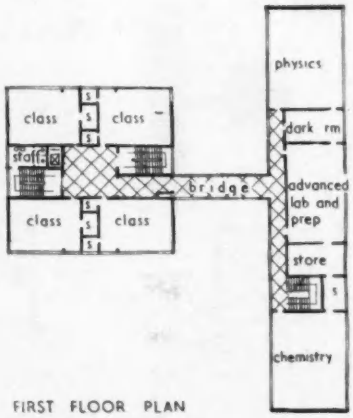
LOWER GROUND FLOOR PLAN
OF COMMUNAL BLOCK



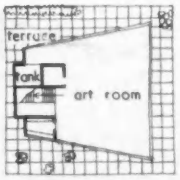
Glazed bridge between laboratories and classroom block



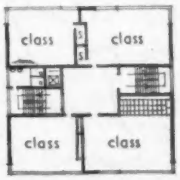
GROUND FLOOR PLAN
SCIENCE & CLASS RM BLOCK



FIRST FLOOR PLAN



ROOF PLAN



SECOND & THIRD
FLOOR PLANS

Classroom block from south-east

Dr. Challoner's Grammar School, Amersham

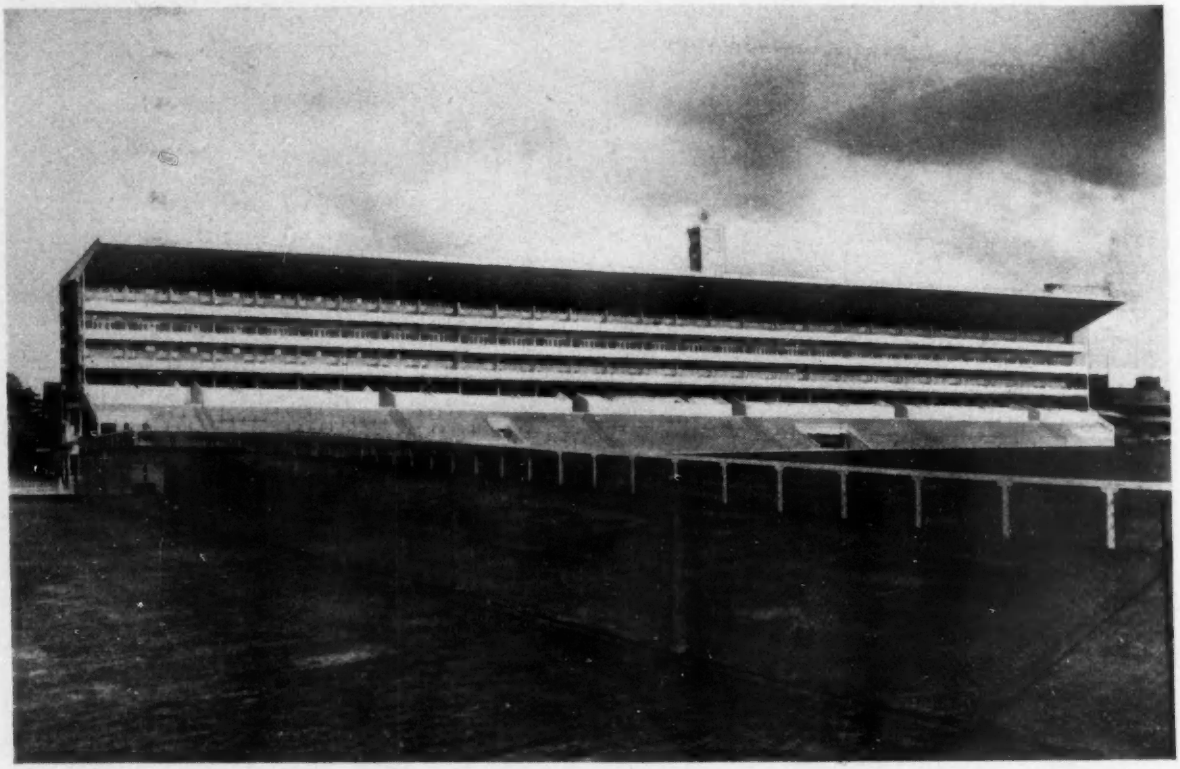
Sub-Contractors & Suppliers:

Steelwork: Boulton & Paul Ltd.; *concrete floors:* Concrete Ltd.; *heating and hot water:* Edward Deane & Beal Ltd.; *metal windows:* Crittall Manufacturing Co. Ltd.; *electrical installation and class change bells:* Eastern Electricity Board; *gas installation:* North Thames Gas Board; *laboratory furniture and fume cupboard extract ducting:* Armstrongs (Hull) Ltd.; *internal gas installation:* A. E. A. Prowting Ltd.; *gymnasium equipment:* Spencer Heath & George Ltd.; *internal acid resisting drainage in lab. block:* Chemical Pipe & Vessel Co.; *window gearing:* Teleflex Products Ltd.; *roller shutters:* G. Brady & Co. Ltd.; *laboratory dark blinds:* Deans Blinds (Putney) Ltd.; *kitchen ventilation system:* J. W. Cubbage & Son; *thermoplastic tile flooring:* Rowan & Boden Ltd.; *wood block flooring:* Horsley Smith & Co.; *external suspended ceiling:* Expanded Metal Co. Ltd.; *thermoplastic tiles and interlocking tiles:* Marley Tile Co. Ltd.; *mineralite rendering:* Kendell's Flooring Ltd.; *library fittings:* Elliston & Cavell Ltd.; *stage equipment:* Hall & Dixon Ltd.; *passenger lift:* Express Lift Co. Ltd.; *heating cabinet and lockers:* W. T. Revitt Ltd.; *Fuela oil-fired heaters:* G. R. Clifton & Son; *cold room:* Bedford Refrigeration Co. Ltd.; *remote control system:* Teleflex Products Ltd.; *ironmongery:* Parker, Winder & Achurch Ltd.; *ceramic wall facings:* Langley (London) Ltd.; *curtain rails:* Silent Gliss Ltd.; *lantern light:* S. Warner & Son Ltd.; *linoleum:* West Bros.; *roof lights:* Williaam J. Cox Ltd.; *cycle racks:* Alfred A. Odoni & Co. Ltd.

The old gymnasium converted into a library

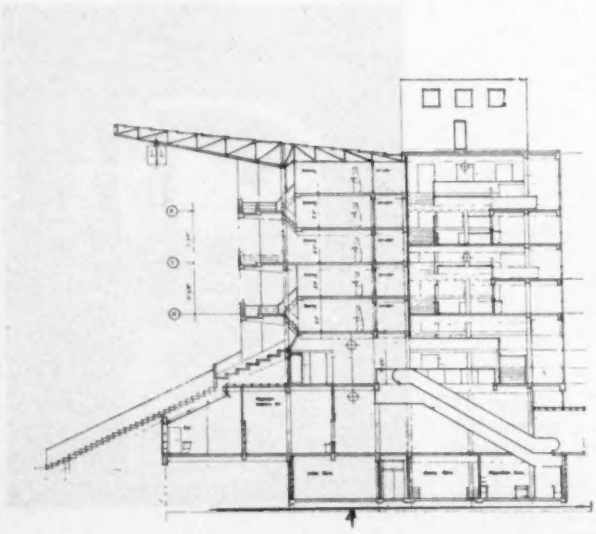
New Tattersalls Stand for Ascot

E. V. COLLINS, ARIBA, Wimpey staff architect
D. DENNINGTON, BSC, ACGI, AMICE, Wimpey staff structural engineer
GEORGE WIMPEY & CO., LTD., general contractor



Overall length of the stand is 560 feet

Cross section through the totalisator hall showing the escalator bank up to the first mezzanine level. Scale: 1 in. = 40 ft.

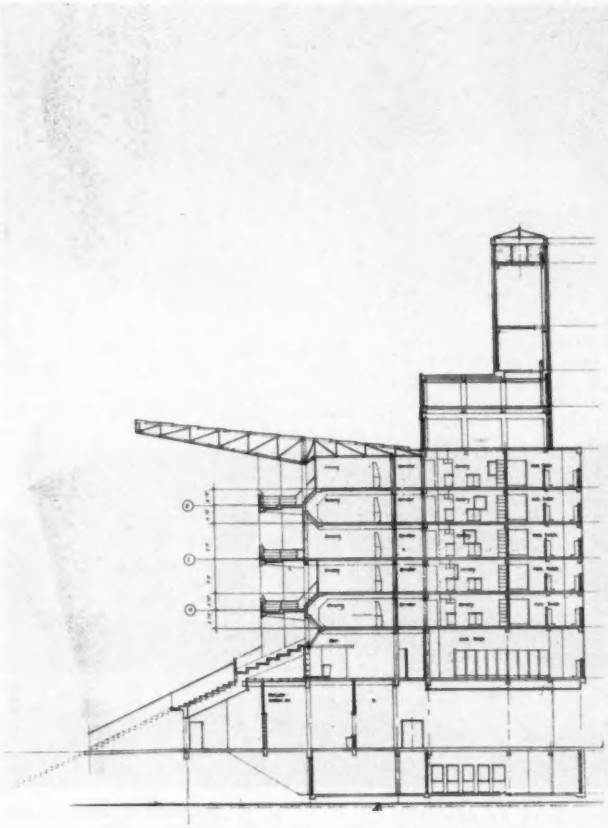


THE SCHEME for a £1m. new Tattersalls stand at Ascot racecourse will have to be completed in a period of ten months, between July next, and the Royal Ascot in June 1961. The design has been prepared in the offices of George Wimpey & Co., Ltd., which Her Majesty the Queen visited on December 9 last to inspect the model and full size mock-up of a private box.

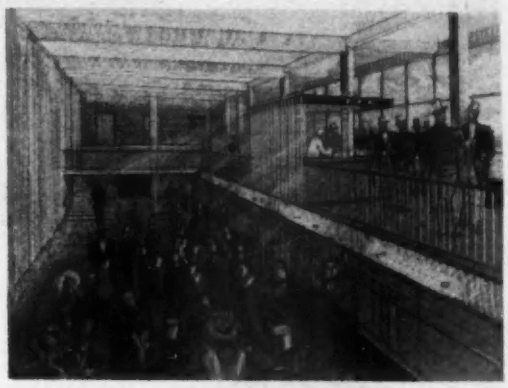
The new stand will extend 560 ft. from the Royal Ascot enclosure on the west, to the Silver Ring enclosure on the east, replacing the Alexandra stand and Grand Tier stand which were built in 1863 and 1839 respectively. A greater increased covered accommodation and general amenity is provided for 13,000 people, of which 8,000 will have free access to a terrace of steps sloping up from the front lawn, with a clear view of the whole track. Behind the steps for the full length of the stand, will be 1,800 tip-up stalls seats which can be reserved for a small extra charge. Projecting over the terrace will be three levels providing 280 Private Boxes.

In the ground floor hall 100 additional totalisator windows are provided. A bank of escalators at the main entrance convey visitors up to the first mezzanine level, leading to bars and the stall seats. The upper five floors are mezzanine or split-level planning, and contain the 280 private boxes which are all en-suite with private dining rooms. Totalisator windows are placed on intermediate floors.

Construction will be in steel framework and precast concrete dressings.

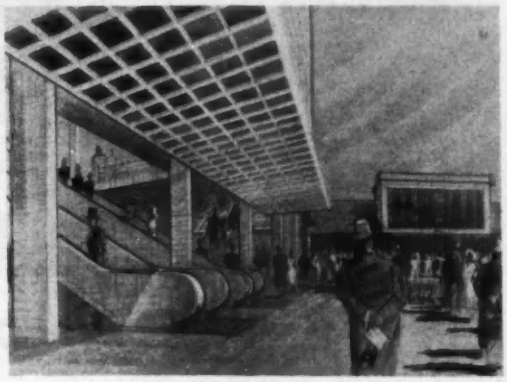


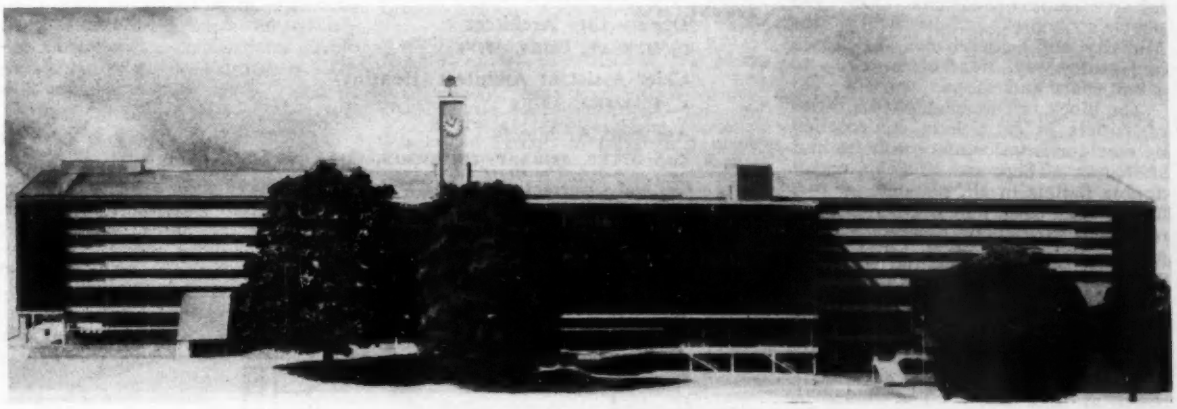
Cross section, showing the private boxes and mezzanine dining rooms. Scale: 1 in.=40 ft.



Upper level totalisator hall

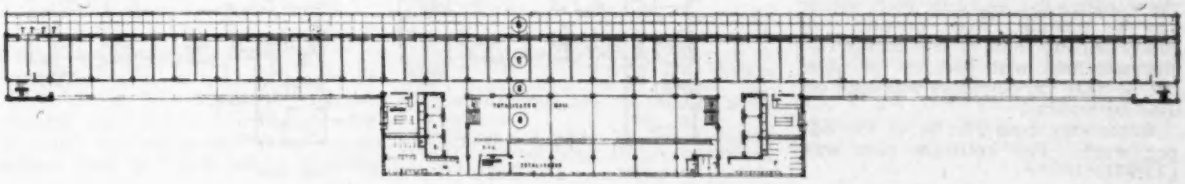
escalator bank, main entrance





Rear elevation

Upper floor plan, showing private boxes and totalisator hall. Scale: 1 in. = 80 ft.



Old Peoples' Flatlets, Oxford

City Architect
E. G. CHANDLER, ARIBA, MTPI

Deputy City Architect
D. MURRAY, ARIBA, MTPI

Chief Assistant Architect (Housing)
A. F. WARD, ARIBA

Assistant Architects
C. J. OTTER, ARIBA, P. THOMPSON, ARIBA

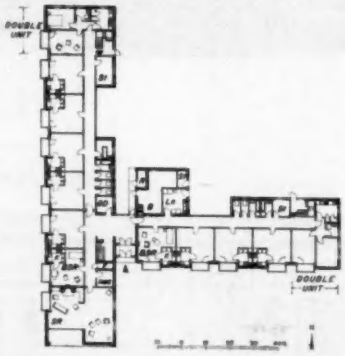
General Contractor
A. C. CARTER (OXFORD), LTD.

HEADLEY HOUSE, a pilot scheme of flatlets for old people, was opened on January 19 by Mr. Henry Brooke, Minister of Housing and Local Government. The design is based upon the latest recommendations for old people's homes published by the Ministry, and a corner site was chosen in Headley-way, Headington, close to a bus route and shops.

The block is T-shaped, with a series of flatlets in each wing, approached by corridor from common lobbies and staircases. There are 20 single and 4 double flatlets in all, planned on two floors. The basic unit is a bed-sitting-room and kitchenette, opening onto a private balcony, served by a communal group of w.c.'s, bathroom, and store, to each wing. Double flatlets have a living room, bedroom, kitchen and w.c. A communal lounge and a fully equipped laundry room are provided at ground floor, and a guest bedroom at first floor. The block is centrally heated throughout.

Refinements in the design include built-in curtain tracks for optional screening of the bed-recess, emergency bell pushes in the bedrooms, w.c.'s, and bathrooms, communicating with the warden's flat, and door bolts which can be operated from outside. A goods delivery room is provided in the entrance hall, with lockers for each flat, so that the corridors will only be used by tenants.

Rents vary from 24s. 6d. to 39s. 6d. per week. The contract cost was £31,941.



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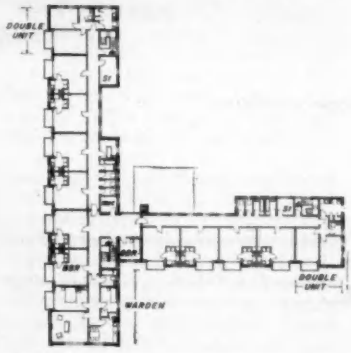

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Old Peoples' Flatlets, Oxford

City Architect
E. G. CHANDLER, ARIBA, MTPI

Deputy City Architect
D. MURRAY, ARIBA, MTPI

Chief Assistant Architect (Housing)
A. F. WARD, ARIBA

Assistant Architects
C. J. OTTER, ARIBA, P. THOMPSON, ARIBA

General Contractor
A. C. CARTER (OXFORD), LTD.

HEADLEY HOUSE, a pilot scheme of flatlets for old people, was opened on January 19 by Mr. Henry Brooke, Minister of Housing and Local Government. The design is based upon the latest recommendations for old people's homes published by the Ministry, and a corner site was chosen in Headley-way, Headington, close to a bus route and shops.

The block is T-shaped, with a series of flatlets in each wing, approached by corridor from common lobbies and staircases. There are 20 single and 4 double flatlets in all, planned on two floors. The basic unit is a bed-sitting-room and kitchenette, opening onto a private balcony, served by a communal group of w.c.'s, bathroom, and store, to each wing. Double flatlets have a living room, bedroom, kitchen and w.c. A communal lounge and a fully equipped laundry room are provided at ground floor, and a guest bedroom at first floor. The block is centrally heated throughout.

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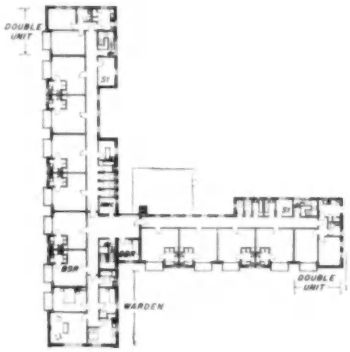

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London Master Builders' Association

Minister of Labour at Annual Meeting ; Mr. E. J. Cook Elected President

The Annual Luncheon

THE ANNUAL LUNCHEON of the LMBA was held at the Park Lane Hotel, W1, on January 26, when the principal guest was the Minister of Labour, Mr. Edward Heath, MP. The Minister was introduced by MR. K. J. PEARCE, the retiring President, who was in the chair, and who proposed the toast of the guests.

MR. HEATH spoke of the very great activity of the building industry at the present time, as witness the rapidly changing skyline of London. Indeed, the value of new construction and of new housing in the LMBA's area was such that unemployment in building was no longer a problem, but rather the reverse—the difficulty was to find the craftsmen to do the work.

The building industry, the Minister continued, needed not only to expand but a stable economy, which was the object of the Chancellor of the Exchequer's economic policy. This brought him to the subject of training of the large number of craftsmen that the building programme would require. In this connection the LMBA was making a very useful contribution, not only to its own area but to the country as a whole.

In the first nine months of 1959, said Mr. Heath, the number of apprentices in the building industry had increased by nearly 20 per cent compared with the same period of 1958, the figures being 18,102 and 15,136 respectively. Unfortunately the increase was probably mainly among non-indentured apprentices, but nevertheless the figures provided very heartening news.

Another problem of training today arose through the use of new materials and new methods of building, which might alter the demand for different occupational skills. The building industry, the Minister suggested, might think in terms of new forms of training to meet these changes, such as producing a more versatile craftsman skilled in more than one direction. There was a danger of training programmes becoming too set and not able to meet the needs of a changing industry.

Training for Safety

Mr. Heath said that safety was a matter of the greatest concern to the Ministry, and he was delighted to see the interest taken by the LMBA in the subject. Safe working really meant efficient working, he said, but he felt on this occasion that he was preaching to the converted.

On industrial relations, Mr. Heath said he was very pleased that the LMBA had such an excellent record, which made the Association one of his worst customers! There were a good many reasons why firms might have either good or bad industrial relations, but he believed that in building the good relationship was fostered by the close working together of master and man which often occurred. Furthermore, he thought that the building worker was happy because he was constantly engaged in creating something.

Those present included: Sir Edward Muir, Sir L. Helsby, Messrs. E. J. Cook (President-elect), T. V. Prosser, W. K. Laing, A. J. Filer, R. F. Mansell, F. J. Root, P. E. Trench, P. H. St. J. Wilson, N. S. Farrow, G. O. Swayne, M. W. Bennitt, D. E. Woodbine Parish, N. Hannen, G. E. D. Ball, K. C. F. Foster, D. M. Chaston, D. A. Neale, G. A. Hill, R. W. B. Howarth, R. H. Braybon, L. J. Holloway, Ian M. Leslie, F. Leslie Wallis, A. Pitt Robins, R. S. Williams, P. H. Bates, P. Smallwood, J. S. Galbraith, P. W. Barton, A. G. Miles, A. R. Mais, D. F. Cox, Paul Gilbert, R. W. Porter, D. G. Howard, E. Smith, D. C. C. Roberts, L. J. Bradshaw, Graham Holliday, A. W. Yeomans, F. H. Towle, R. E. Stenning, E. G. Dean and G. H. A. Hughes (Director).

The Annual Meeting

THE 88TH ANNUAL GENERAL MEETING of the London Master Builders' Association was held at the Park Lane Hotel, London, W1, on January 26, with the retiring President, Mr. K. J. Pearce, in the chair. The following extracts are taken from the annual report which was presented at the meeting:

Institute of Builders.—The Association has warmly welcomed the increasing activity and developments in the work of the Institute and notably the new membership and examination structure.

National Contractors' Group.—The Group has played an increasingly important part in all the major fields of activity and the progress made in the important matter of apprenticeship is encouraging. The Group has proved an invaluable medium for persuading the larger firms to increase their intake of apprentices and to participate in the various training schemes available, particularly those for General Foremen.

The experience and advice of Group Members has been made available through their representation on various Committees and it has been found helpful to have this readily effective means of keeping the Executive Committee and Council continually in touch with the views of the larger firms. Several ideas originating in the Group have assisted in shaping the Association's policy.

House-Building.—Although the output of private enterprise house-builders now exceeds that of local authorities, the demand for houses continues to grow. For years the industry has complained of the shortage of suitable land and there is no immediate prospect of radical improvement in the situation. Now that, under the Town and Country Planning Act, 1959, local authorities have to pay compensation based on current market value for land compulsorily acquired, a slight improvement can be detected.

The first quinquennial review of development plans is now in progress in some areas. It will be necessary for house-builders individually and collectively to examine any proposals for amendment of the original plans to ensure that they are not detrimental to the interests of the industry and, if necessary, to object at the appropriate time.

The President's Career

AT THE ANNUAL GENERAL meeting on January 26, Mr. E. J. Cook, BSc, MICE, MIStructE, FIOB, was elected President in succession to Mr. K. J. Pearce. He is a director of Richard Costain, Ltd., and is responsible for the building activities of the Costain Group in the home country. In becoming President, he is following in the footsteps of his chairman, Sir Richard Costain, CBE, who was President in 1950.

Mr. E. J. Cook

Mr. Cook is a past president of the Reinforced Concrete Association and a Governor of the Brixton School of Building.

Mr. Cook is by profession an engineer. After attending Brixton Junior Technical School he matriculated at London University, and while working successively as junior draughtsman, first assistant and then chief engineer with three engineering firms, he continued his studies at evening classes. After intensive courses at the Battersea Polytechnic and Brixton, he took his BSc with Honours in Engineering in 1933. Two years later he took the Institution of Civil Engineers examination and became an Associate Member.

In 1938 he started in practice on his own as a civil engineer and in the same year founded his own civil engineering business. In 1949 he was invited to join the Costain Board and to bring his company into the group. In March, 1941, he 'seconded himself,' as he puts it, from his firm to become Assistant Director of Emergency Works for East Anglia.

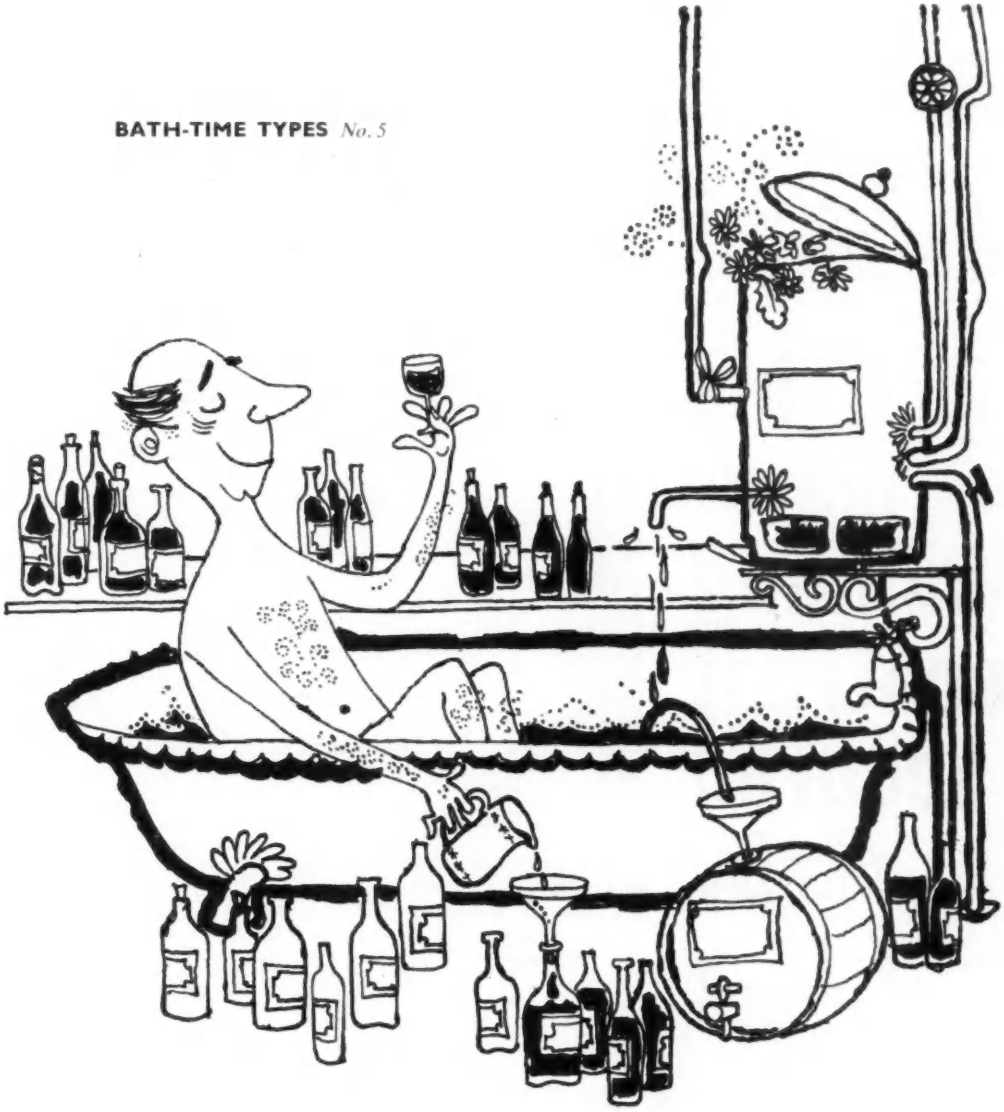
Mr. Cook's association with the LMBA, though relatively short, has been highly effective, and he has made a real impact by his forward-looking views on the social problems of the industry. He was elected to the Council in 1955, to the Executive in 1956, and became Junior Vice-President in 1957. He has a sympathetic approach to labour questions and to apprenticeship and education.

Mr. Cook has travelled widely abroad for his firm, his journeys taking him to Canada and the United States, and several times to East Africa and the Federation of Rhodesia and Nyasaland. In his younger days he was a keen cricketer, but he has now transferred his active enthusiasm to golf, and for the second year is captain of the LMBA Golfing Society.

Election of Officers

At the annual general meeting Mr. E. J. Cook was elected president for 1960, with Mr. R. F. Mansell, senior vice-president, and Mr. P. H. Bates and Mr. A. R. Mais, OBE, junior vice-presidents. Mr. W. Kirby Laing was re-elected honorary treasurer.

BATH-TIME TYPES *No. 5*



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London Master Builders' Association

Minister of Labour at Annual Meeting ; Mr. E. J. Cook Elected President

The Annual Luncheon

THE ANNUAL LUNCHEON of the LMBA was held at the Park Lane Hotel, W1, on January 26, when the principal guest was the Minister of Labour, Mr. Edward Heath, MP. The Minister was introduced by MR. K. J. PEARCE, the retiring President, who was in the chair, and who proposed the toast of the guests.

MR. HEATH spoke of the very great activity of the building industry at the present time, as witness the rapidly changing skyline of London. Indeed, the value of new construction and of new housing in the LMBA's area was such that unemployment in building was no longer a problem, but rather the reverse—the difficulty was to find the craftsmen to do the work.

The building industry, the Minister continued, needed not only to expand but a stable economy, which was the object of the Chancellor of the Exchequer's economic policy. This brought him to the subject of training of the large number of craftsmen that the building programme would require. In this connection the LMBA was making a very useful contribution, not only to its own area but to the country as a whole.

In the first nine months of 1959, said Mr. Heath, the number of apprentices in the building industry had increased by nearly 20 per cent compared with the same period of 1958, the figures being 18,102 and 15,136 respectively. Unfortunately the increase was probably mainly among non-indentured apprentices, but nevertheless the figures provided very heartening news.

Another problem of training today arose through the use of new materials and new methods of building, which might alter the demand for different occupational skills. The building industry, the Minister suggested, might think in terms of new forms of training to meet these changes, such as producing a more versatile craftsman skilled in more than one direction. There was a danger of training programmes becoming too set and not able to meet the needs of a changing industry.

Training for Safety

Mr. Heath said that safety was a matter of the greatest concern to the Ministry, and he was delighted to see the interest taken by the LMBA in the subject. Safe working really meant efficient working, he said, but he felt on this occasion that he was preaching to the converted.

On industrial relations, Mr. Heath said he was very pleased that the LMBA had such an excellent record, which made the Association one of his worst customers! There were a good many reasons why firms might have either good or bad industrial relations, but he believed that in building the good relationship was fostered by the close working together of master and man which often occurred. Furthermore, he thought that the building worker was happy because he was constantly engaged in creating something.

Those present included: Sir Edward Muir, Sir L. Helsby, Messrs. E. J. Cook (President-elect), T. V. Prosser, W. K. Laing, A. J. Filer, R. F. Mansell, F. J. Root, P. E. Trench, P. H. St. J. Wilson, N. S. Farrow, G. O. Swayne, M. W. Bennitt, D. E. Woodbine Parish, N. Hannen, G. E. D. Ball, K. C. F. Foster, D. M. Chaston, D. A. Neale, G. A. Hill, R. W. B. Howarth, R. H. Braybon, L. J. Holloway, Ian M. Leslie, F. Leslie Wallis, A. Pitt Robins, R. S. Williams, P. H. Bates, P. Smallwood, J. S. Galbraith, P. W. Barton, A. G. Miles, A. R. Mais, D. F. Cox, Paul Gilbert, R. W. Porter, D. G. Howard, E. Smith, D. C. C. Roberts, L. J. Bradshaw, Graham Holliday, A. W. Yeomans, F. H. Towle, R. E. Stenning, E. G. Dean and G. H. A. Hughes (Director).

The Annual Meeting

THE 88TH ANNUAL GENERAL MEETING of the London Master Builders' Association was held at the Park Lane Hotel, London, W1, on January 26, with the retiring President, Mr. K. J. Pearce, in the chair. The following extracts are taken from the annual report which was presented at the meeting:

Institute of Builders.—The Association has warmly welcomed the increasing activity and developments in the work of the Institute and notably the new membership and examination structure.

National Contractors' Group.—The Group has played an increasingly important part in all the major fields of activity and the progress made in the important matter of apprenticeship is encouraging. The Group has proved an invaluable medium for persuading the larger firms to increase their intake of apprentices and to participate in the various training schemes available, particularly those for General Foremen.

The experience and advice of Group Members has been made available through their representation on various Committees and it has been found helpful to have this readily effective means of keeping the Executive Committee and Council continually in touch with the views of the larger firms. Several ideas originating in the Group have assisted in shaping the Association's policy.

House-Building.—Although the output of private enterprise house-builders now exceeds that of local authorities, the demand for houses continues to grow. For years the industry has complained of the shortage of suitable land and there is no immediate prospect of radical improvement in the situation. Now that, under the Town and Country Planning Act, 1959, local authorities have to pay compensation based on current market value for land compulsorily acquired, a slight improvement can be detected.

The first quinquennial review of development plans is now in progress in some areas. It will be necessary for house-builders individually and collectively to examine any proposals for amendment of the original plans to ensure that they are not detrimental to the interests of the industry and, if necessary, to object at the appropriate time.

The President's Career

AT THE ANNUAL GENERAL meeting on January 26, Mr. E. J. Cook, BSc, MICE, MIStructE, FIOB, was elected President in succession to Mr. K. J. Pearce. He is a director of Richard Costain, Ltd., and is responsible for the building activities of the Costain Group in the home country. In becoming President, he is following in the footsteps of his chairman, Sir Richard Costain, CBE, who was President in 1950.

Mr. E. J. Cook

Mr. Cook is a past president of the Reinforced Concrete Association and a Governor of the Brixton School of Building.

Mr. Cook is by profession an engineer. After attending Brixton Junior Technical School he matriculated at London University, and while working successively as junior draughtsman, first assistant and then chief engineer with three engineering firms, he continued his studies at evening classes. After intensive courses at the Battersea Polytechnic and Brixton, he took his BSc with Honours in Engineering in 1933. Two years later he took the Institution of Civil Engineers examination and became an Associate Member.

In 1938 he started in practice on his own as a civil engineer and in the same year founded his own civil engineering business. In 1949 he was invited to join the Costain Board and to bring his company into the group. In March, 1941, he 'seconded himself,' as he puts it, from his firm to become Assistant Director of Emergency Works for East Anglia.

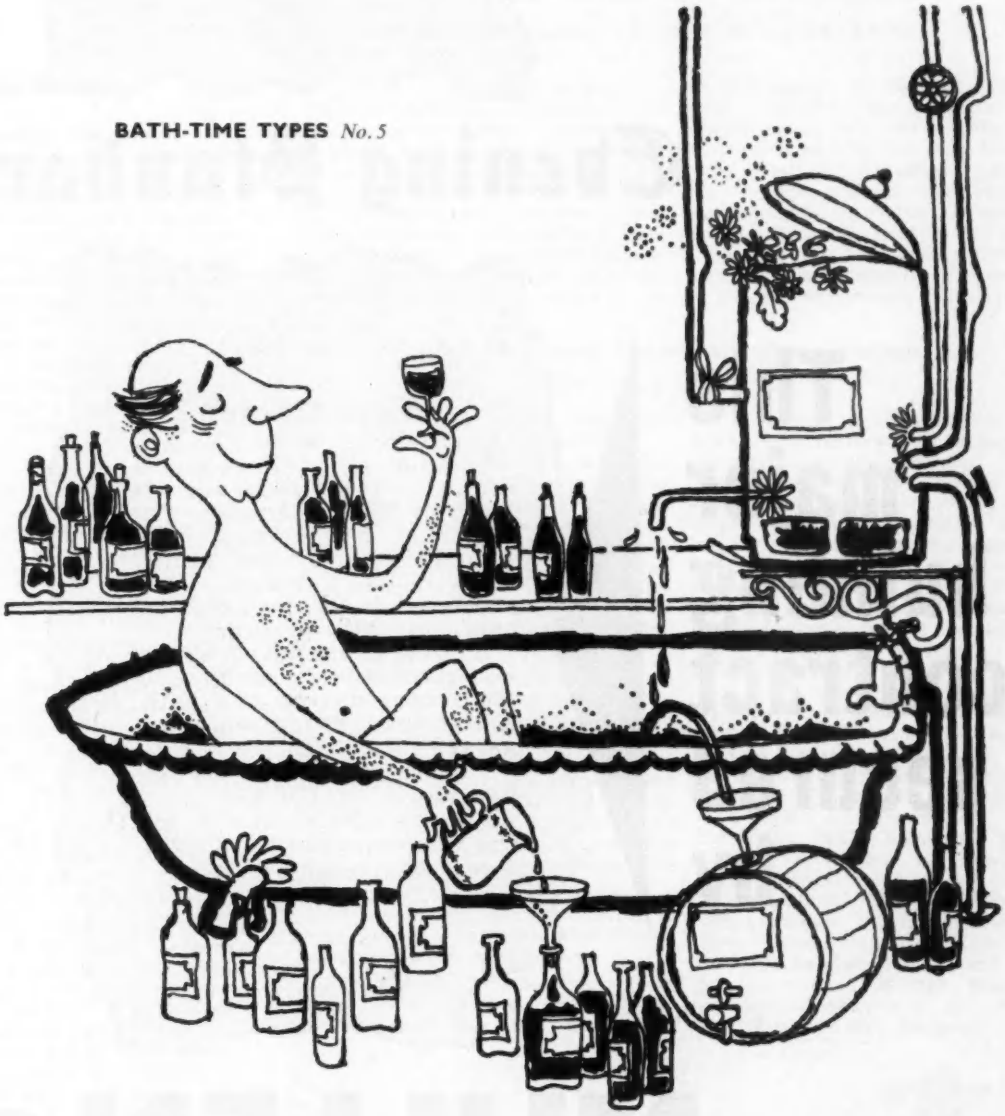
Mr. Cook's association with the LMBA, though relatively short, has been highly effective, and he has made a real impact by his forward-looking views on the social problems of the industry. He was elected to the Council in 1955, to the Executive in 1956, and became Junior Vice-President in 1957. He has a sympathetic approach to labour questions and to apprenticeship and education.

Mr. Cook has travelled widely abroad for his firm, his journeys taking him to Canada and the United States, and several times to East Africa and the Federation of Rhodesia and Nyasaland. In his younger days he was a keen cricketer, but he has now transferred his active enthusiasm to golf, and for the second year is captain of the LMBA Golfing Society.

Election of Officers

At the annual general meeting Mr. E. J. Cook was elected president for 1960, with Mr. R. F. Mansell, senior vice-president, and Mr. P. H. Bates and Mr. A. R. Mais, OBE, junior vice-presidents. Mr. W. Kirby Laing was re-elected honorary treasurer.

BATH-TIME TYPES *No. 5*



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old stepdaughter, Susan, who is a student at Kingston School of Art.

Evening Standard

scales in this—his wife, Evelyn, fabric painting and pottery, and there is a piece of sculpture by his 20-year

This major building contract secured by

Biggest hotel

A HOTEL with TV and radio in stereophonic sound for every room is to be built in Russell Square. The Walduck brothers, who jointly manage the family concern that already has eight hotels in the area, are calling it The President.

As well as the lavish sound and vision effects, each of the 450 rooms will have a bath. And below ground will be a garage for 80 cars.

"It will be the biggest post-war hotel in London" — Mr. Norman Walduck tells me. The President will have eight storeys and cost £1,000,000.

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Late News

Hospital Architectural Competition

THE SHEFFIELD REGIONAL HOSPITAL BOARD will invite, probably at the end of February, architects resident in Great Britain, Northern Ireland and Eire to take part in an open competition approved by the RIBA for designs for a new hospital of some 470 beds to be erected at Boston, Lincolnshire. The Board has appointed Mr. J. M. Easton, FRIBA, as assessor.

The competition will be conducted in two stages, the preliminary stage comprising sketch plans showing the general layout, massing and composition of the scheme. From the competitors taking part in the preliminary stage the assessor will select six to prepare more detailed schemes for the final stage. Each of these six selected competitors will receive a premium of £500 and the author of the winning design finally chosen will, in addition, be awarded a further £1,500.

Short List for Leeds Appointment

THE FOLLOWING are to be interviewed by a special committee of Leeds City Council on February 8 for the post of City Architect, vacant since the death last year of Mr. R. A. H. Livett : Mr. R. J. Ash, Deputy City Architect, Newcastle-upon-Tyne; Mr. K. M. Baxter, Borough Architect, Bolton; Mr. H. S. Howgrave-Graham, Chief Architect, Crawley Development Corporation; Mr. P. B. Haswell, Acting City Architect, Leeds; Mr. J. R. Sheridan-Shedden, Deputy City Architect, Birmingham; and Mr. H. J. W. Stirling, City Architect, Plymouth.

Hampstead Hospital Scheme

A SCHEME costing about £10m. to bring together, on a site adjacent to the existing Hampstead General Hospital, the scattered units of the Royal Free Hospital has received general approval by the Ministry of Health. The architect for the hospital, Mr. Alexander Gray, FRIBA, of W. H. Watkins, Gray & Partners, has solved the problem of the restricted site (12 acres) by a cruciform tower, 18 storeys high, with a central hub containing lifts. The project will provide a general undergraduate teaching hospital with 800 beds and medical school. It is hoped to begin construction within two years.

LMBA Council Elections

MEMBERS OF THE COUNCIL elected at the annual meeting of the London Master Builders' Association on Tuesday were:

H. Aldous (A. Roberts & Co., Ltd.); R. W. Brocksopp (Holland & Sons); E. G. S. Buchanan (W. H. Lorden & Son Ltd.); H. J. Falkus (Falkus Bros. Ltd.); T. Freakley (Taylor Woodrow Construction Ltd.); D. G. Howard (M. Howard (Mitcham) Ltd.); W. R. Leddington (W. S. Try Ltd.); A. G. Miles (Hammond & Miles Ltd.); K. P. Rush (Rush & Tompkins Ltd.); R. A. Wood (J. W. Falkner & Sons Ltd.).

News of the Week is on page 227.

Multi-Storey Garages

Need for Phased Provision in Central London

enterprise of this magnitude involved.

The General Purposes Committee refers to the statement of May 7, 1959, of the Minister of Transport and Civil Aviation that no case had been made out for a Government subsidy for off-street parking. The financial burden is thus thrown on the local authorities. Although there has been close liaison with all the authorities concerned only limited action for the provision of off-street parking has so far been taken. The financial considerations involved in the defining of sites, acquisition of land and constructional work on a co-ordinated basis have yet to be ascertained, and moreover some of the borough councils may encounter grave difficulties in finding the necessary capital. Hence the need for the discussions with the Metropolitan Boroughs' Standing Joint Committee if there is to be an effective approach to the problem.

Mechanical Car Park for London

The Use of Lift Platforms

WHAT MAY WELL BE the first mechanical car park to be operated in London is to be built on a site in Shoe-lane near Holborn Circus in the City with an associated office building. The development is being undertaken by Parcar Ltd., a company owned jointly by Mitchell Engineering Limited, of London and Peterborough, and the Unit Construction Company, Limited, of Feltham, Middlesex. Plans have been approved by the City Corporation.

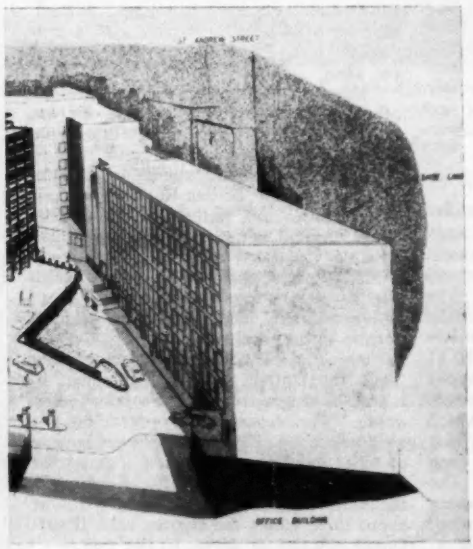
The mechanical car park, which will be separate from, but adjacent to, the office building, will be ten storey high and will be equipped with two lifts, each capable of carrying two cars at a time and cars will be moved from the lift and parked by mechanical 'dollies.' It is estimated that four cars a minute can be parked under this system. Drivers will drive into the ground floor, leaving their cars to be parked mechanically.

Parking charges are not expected to differ materially from the normal London charges for under cover parking.

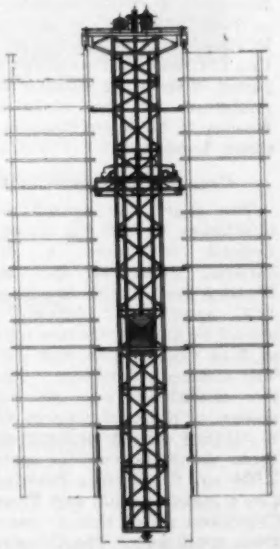
The adjacent office building will be seven floors high and there will be 40,000 sq. ft. of office space. Work on the site is expected to begin in June, 1960, and both buildings will be completed in about twelve months thereafter.

The garage will have a precast frame. Flooring will consist of precast trough units covered with a lightweight 'in situ' topping. Cars will be stored and unloaded by two traversing lifts. Cars will be delivered to and taken from the lift platform by mechanical dollies. Each lift will be controlled by one operator. Lift speeds: Vertical, 300 ft./min.; Horizontal, 150 ft./min. Lift platforms carry 2 cars at a time and can unload them separately or simultaneously. Cars can be loaded or unloaded at a rate in excess of 4 per minute. Dimensions of the garage are: 66 ft. wide, 100 fet. long, 99 ft. high; this area will house 240 cars.

Developers are: Parcar, Ltd., 1, Bedford-square, WC1; Architects: Howard V. Lobb and Partners, 20, Gower-street, WC1; Surveyors: Hallet, Fox & White, 4 Colemans-street, EC2; Quantity Surveyors: Gleeds, 160 Regent-street, W1; Main Contractors: Unit Construction Co. Ltd., Feltham, Middx.; and Special Sub-Contractors: Mitchell Engineering (mechanical equipment), and Pierhead Ltd. (frame and floor designers).



buildings (car park and offices)



Sectional view of lift

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News Summary

216 *The most impressive feature of the statistics of productivity and prices recorded this quarter is the further increase in productivity, states 'The Builder' quarterly analysis of trends.*

231 *A public inquiry was held in connection with a housing scheme at Blackheath which is opposed by the LCC on the grounds that it would be out of harmony with neighbouring buildings.*

231 *The High Court dismissed an appeal for damages against a firm of architects for alleged negligence in designing and siting a block of flats.*

232 *Birmingham Public Works Committee approved in principle a £5m. scheme for the comprehensive redevelopment of a 3-acre site in the Bull Ring area.*

233 *The UN Committee on Modular Co-ordination in Building calls for the immediate convening of a symposium of experts to prepare draft rules defining the dimensions of large components used in house construction.*

234 *Civil engineering employees will work a 40-hour week next winter with a compensatory wage increase and increased overtime rates.*

234 *A continuing high level of expenditure on Government building and an increased budget for the roads programme are likely in the financial year beginning April 1, writes our Parliamentary Correspondent.*

236 *War Damage payments amounted to £13½m. in 1959 compared with £19½m. in 1958 and £23¼m. in 1957.*

Multi-Storey Garages

Need for Phased Provision in Central London

THE NEED for a comprehensive scheme for multi-storey garages in Central London was discussed by the London County Council on January 26, when it was reported that the General Purposes Committee had invited discussions with the Metropolitan Boroughs' Standing Joint Committee to urge its view that there should be a comprehensive plan for a phased provision of multi-storey garages in Central London.

This statement follows a summary of the report of the Committee on London Roads (Nugent Committee) which estimated that about 50,000 vehicles were daily parked on the streets of Central London, and that the broad effect of clearing all parked vehicles off the streets except at parking meters might be to increase their traffic capacity by 15 to 25 per cent. The average cost of providing off-street garage space in central London was estimated at about £1,500 a car space and the economic charge might well be 12s. 6d. or more a day.

Capital Investment of £45m. Involved

The Council's representatives on the Nugent Committee had stated, in a reservation to the report, that full provision for all the present long-term parkers in inner London could involve car parking for 30,000 cars involving capital investment of some £45m., and even a reduced programme could involve heavy commitments for the local authorities concerned (i.e., the City Corporation and the Metropolitan Borough Councils). They urged the view that the need for a comprehensive system of car parks was so urgent that a 'shot in the arm' policy was needed and that the Government should be prepared to make some contribution to the local authorities undertaking the initial financial risks which an enterprise of this magnitude involved.

The General Purposes Committee refers to the statement of May 7, 1959, of the Minister of Transport and Civil Aviation that no case had been made out for a Government subsidy for off-street parking. The financial burden is thus thrown on the local authorities. Although there has been close liaison with all the authorities concerned only limited action for the provision of off-street parking has so far been taken. The financial considerations involved in the defining of sites, acquisition of land and constructional work on a co-ordinated basis have yet to be ascertained, and moreover some of the borough councils may encounter grave difficulties in finding the necessary capital. Hence the need for the discussions with the Metropolitan Boroughs' Standing Joint Committee if there is to be an effective approach to the problem.

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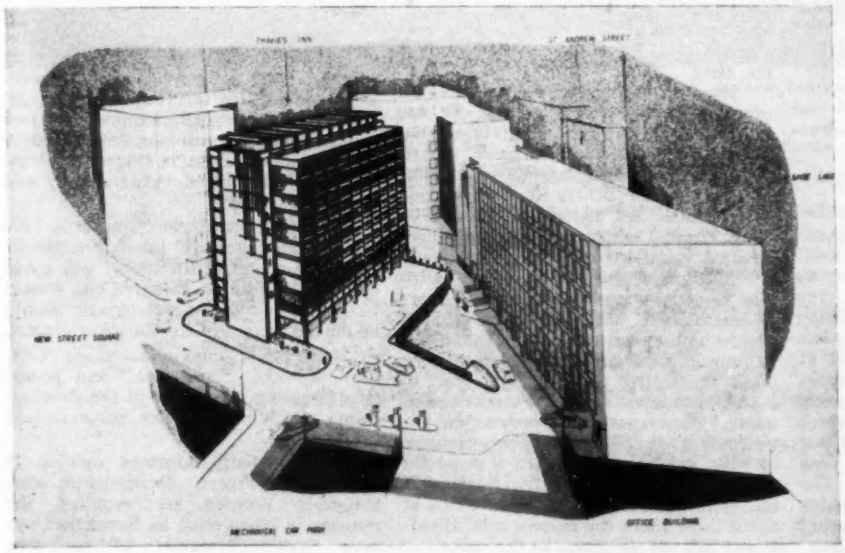
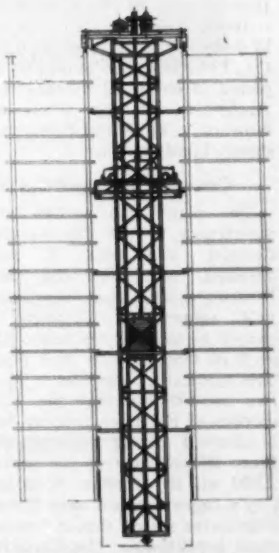


Perspective view of the buildings (car park and offices)



Sectional view of lift

Building in the City

Mechanical Car Park Approved by Common Council

THE COURT OF COMMON COUNCIL of the City of London, at its meeting at Guildhall on January 21, approved a recommendation from the Improvements and Town Planning Committee for a building lease to be granted for a ten-storey mechanical car-park. The lease, on a 99-years term, was granted to Parcar, Ltd.

The building, which will be on a site bounded by Shoe-lane, Robin Hood-court and New Street-square, will include a petrol station, servicing facilities, offices, showrooms and licensed premises.

The recommendation contained a clause that the lessees should submit plans and a specification of the building for approval by the Corporation within a time to be stipulated in the building agreement, together with a statement setting out in detail the method of operation of any mechanical and electrical equipment proposed to be installed in connection with the parking or movement of vehicles. Detailed drawings and specifications of all such equipment have also to be submitted.

After the meeting, a spokesman for Parcar, Ltd., a company jointly owned by Mitchell Engineering, Ltd., and the Unit Construction Co., Ltd., said that the mechanical car park, which will be separate from but adjacent to the office building, will be ten storeys high and will be equipped with two lifts, each capable of carrying two cars at a time. Cars will be removed from the lift and parked by mechanical dollies.

'Accommodation will be provided on the site for about 240 cars,' the spokesman said. 'The rates for parking have not yet finally been worked out and, in any case, are a matter for the operator. Despite the high site values applicable to this part of London, there is no reason to suppose that charges will differ materially from the normal London charges for under-cover parking.' The adjacent office building will be seven floors high and there will be 40,000 sq. ft. of office space.

Work on the site is expected to begin in June, 1960, by the Unit Construction Co., Ltd., and both buildings will be completed in about 12 months or thereafter. Architects for the whole scheme are Howard V. Lobb and Partners, 20 Gower-street, London, W1.

Car-space Standards in Dispute

The court also agreed to a recommendation to ask the London County Council to refer a disagreement between them to the Minister of Housing and Local Government. The LCC agree that planning permission should be granted for new office premises at 8-10 Coopers-row and part of 10-11 The Crescent, Minories. They propose two conditions: that the four topmost storeys of the twelve-storey block which is planned should be omitted, and that there should be one car space for each 2,000 sq. ft. of office floor space. The City's Improvements and Town Planning Committee stated that it 'cannot accept' these conditions. The Corporation standard for car space is one for each 2,500 sq. ft. of office floor space.

The Court approved another recommendation from the Improvements and Town Planning Committee to permit the undermentioned proposed development: Site bounded by Upper Thames-street, Queen-street-place, River Thames and the proposed public cleansing depot, including vaults under Queen-street-place—erection of a mechanical garage (Zidpark). (Architects: C. E. Wilford and Son, 2 Green-street, W1).

The Council refused to permit the following development: So much of 80-83 Royal Mint-street and the Rising Sun public house, 73-88 Minories, the Goods Depot, and Sparrow Corner as are within the City—development for use as offices and garage with a petrol station and ancillary service.

The Corporation state that the site has been selected by the Common Council as one which should be reserved for the provision of a multi-storey car park to provide parking facilities for at least 500 cars, and it is probable that this figure will increase to 750 spaces. (Architects: T. P. Bennett and Son, 43 Bloomsbury-street, WC1.)

The court approved the drawings and particulars for the following: 135-146 Aldersgate-street, 89-92 Long-lane and 17 Newbury-street—erection of headquarters building for the London Salvage Corps, including offices, appliance room, workshops, dormitories, recreation rooms and senior officers' flats. (Architects: Howell and Brooks, 4 Queen Victoria-street, EC1); 10-15 Queen-street, 58-66 Watling-street and 2-3 Well-court—erection of a new building for use as offices, with shops on the ground floor of the wing fronting Watling-street. (Architects: Fitzroy Robinson and Partners, 3 Gray's Inn-square, London, WC1.)

Urban Prosperity and the Motor Vehicle

A Paper at the Royal Institution of Chartered Surveyors

'THIS is the age of the motor-vehicle whether we like it or not,' said MR. C. T. BRUNNER, vice-chairman of the British Road Federation, in a paper on 'Traffic Congestion: Its Causes and Consequences' to the Royal Institution of Chartered Surveyors, on January 26. He continued: 'Although, in the short-term, restrictions on parking may be necessary, no city which refuses to plan for the reasonable use of motor-vehicles can hope to retain its position.'

If traffic congestion in our cities continued or grew worse, the land usage of large areas would alter and the whole structure of property values would be affected. 'If people cannot easily shop, make business or professional visits, or attend entertainment in the city, they will sooner or later transfer their custom elsewhere, as proved by experience both in this country and abroad.'

On the subject of parking, Mr. Brunner added: 'Kerb-parking, as permitted by parking-meters, could well be shown to be a false economy since, in addition to discouraging the short-term parker financially, the meter parking-bays reduce the total number of vehicles that can be accommodated at the kerb—with a consequent loss of trade to the businesses in the area.

'The Paris parking disc scheme, on the other hand, allows free parking for one hour, and even longer in certain circumstances. Mr. Marples has said that he does not consider the scheme suitable for London, but the British Road Federation have made an extensive survey in Kingston-on-Thames, and evolved three possible variations of it.'

Mr. Brunner had some strong criticism to make about investment in roads: 'Great Britain has the highest vehicle density in the world—31 vehicles (excluding motorcycles) per road mile, as against 20 in the United States. Investment in roads, in the past, has been totally inadequate. The present roads programme is a welcome start, but it is only a fraction of what must be undertaken if our road system is to work efficiently. Britain has the material resources to build roads at about three times the current rate, if sufficient priority be given to the task.

'The major and most difficult aspect of traffic congestion is not on roads between urban areas, but in and around the towns and cities themselves.' As the Select Committee on Estimates pointed out last year, 'one result of the lack of a national plan has been an over-emphasis on motorways through fields, to the neglect of urban bottlenecks.

'It is a balanced but unstinting development of both which is required; and while this is being done we must utilise the full traffic capacity of our existing roads. More traffic research and engineering could increase, by as much as one third, the capacity of existing streets at comparatively small expense.'

Preparing for the Future

Mr. Brunner had this to say about the future: 'The number of registered vehicles has doubled since 1949, and can expect to be more than trebled by the late sixties. Mass-production industries have become increasingly dependent on road transport. To win back custom, British Railways might well adopt the American 'piggy-back' service, whereby trains carry complete lorries or their trailers.

'An essential corollary to restricting long-term kerb-parking and building motorways is the provision of adequate off-street parking facilities. The present minimum parking requirements for new buildings in London are extremely modest. Town planners must, in future, be aware of the additional traffic generated by new planning schemes.

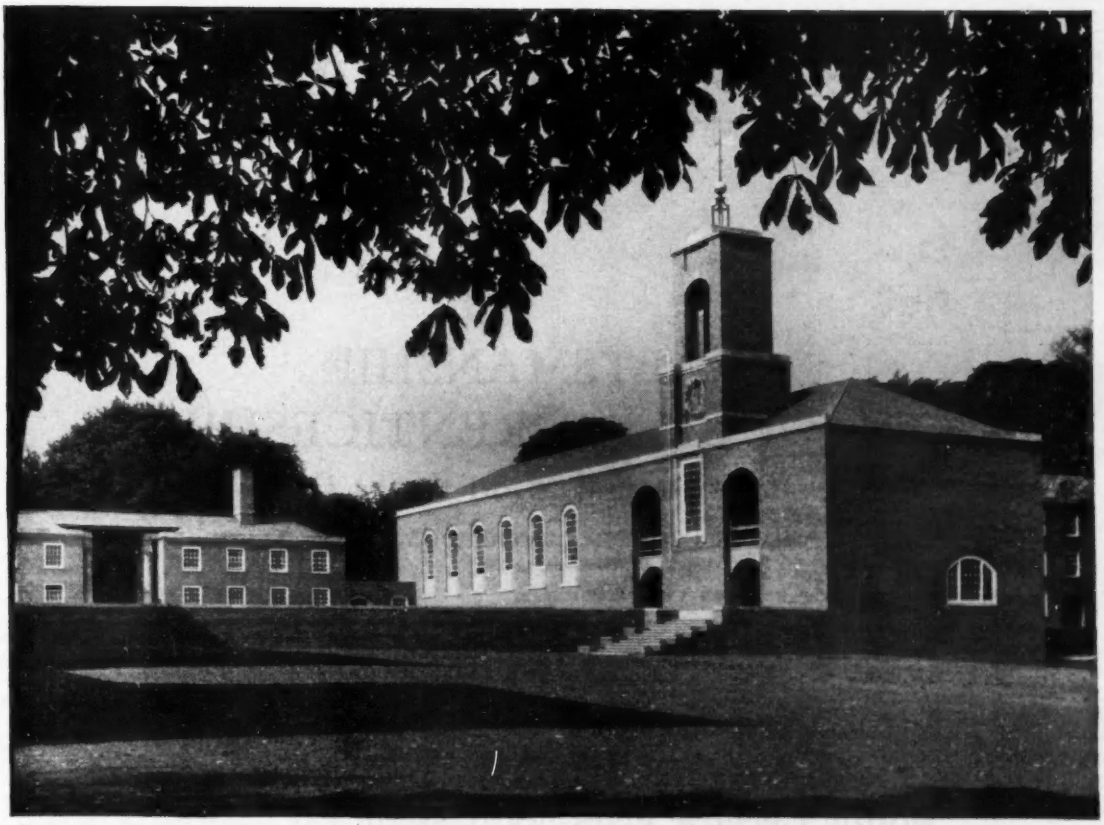
'Unless cities expand upwards, the pressure outwards will burst through the Green Belt, and urban sprawl will cover our countryside. A balanced city should be the aim—future developments should be on the pattern of the Barbican project.

'Helicopters, monorails, roads built over railways, "clearways" and pedestrian precincts are a few of the developments which may become commonplace in the future.'

He concluded: Informed opinion is essential and urgent. Decisions on what long-term policies are required for vehicles in cities must be hammered out now. Continued inaction will prejudice the future.'

LAING

For completion on time



Architects: Horace Farquharson, F.R.I.B.A, Donald H. McMorran, A.R.A, George F. Whitby, M.B.E, F.R.I.B.A.

Clock Tower and Great Hall, Cripps Hall of Residence, Nottingham University. The scheme included seven blocks, a warden's house and ancillary buildings, which are grouped round two quadrangles. Completion of this important project on time was ensured by the careful organisation and planning which are an integral feature of every project, both large and small undertaken by John Laing and Son Limited.

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A Planning Inquiry

South Row, Blackheath

From a Correspondent

IN CONNECTION WITH THE BUILDING of 23 flats with 10 maisonettes and 16 garages proposed on a site with a heath frontage between the Paragon and Colonnade House, Blackheath, a public inquiry was held at Lewisham Town Hall on January 13 and 14 before a Ministry of Housing and Local Government Inspector.

The case arose out of an appeal by Span Developments Ltd. against the refusal by London County Council to grant planning permission to the design by Mr. Eric Lyons, OBE, FRIBA, reproduced on this page. The grounds for the refusal were that the proposal was lacking in harmony with neighbouring buildings, Colonnade House and The Paragon, and out of keeping in this setting. Counsel for Span Developments Ltd. quoted earlier policy decisions of the Minister, and contended that the appellants' scheme, though modern in design, would have none of the detrimental effects alleged.

SIR HUGH CASSON, one of the witnesses for the appellants, referred to the loss by enemy action of the buildings in South Row as a great architectural tragedy. He considered that Mr. Lyons's plan had met the undoubted difficulties which existed in placing new buildings beside old ones. At this point the LCC produced an alternative plan which had been prepared by Mr. W. A. Eden, FRIBA, chief architect, historical buildings department, as an indication of the practicability of providing an elevation retaining the main features of the original design in conjunction with modern flats behind.

Sir Hugh Casson felt that Mr. Eden's design, though quite successful, was not necessarily the correct solution. He agreed, in reply to another question, that something on these lines might be the safer course, but that safety was not always a virtue.

MR. LYONS, giving evidence, considered that his building would not compete with its neighbours, and criticised the LCC proposal as 'drear.' He had attempted an 'abstract pattern' and a building deliberately asymmetrical.

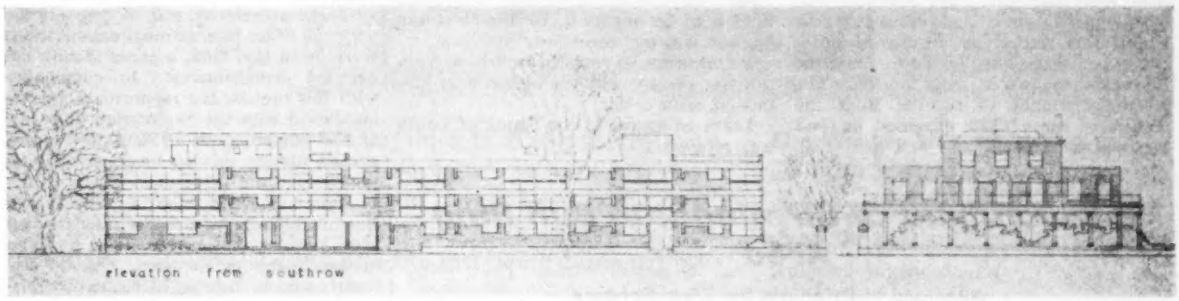
MR. EDEN, cross-examined by Mr. Goodfellow, counsel for the LCC, explained that his design was only tentative and could be modified, and that the Council were concerned with retaining a sense of symmetry in relation to the adjoining important buildings. In reference to an earlier reply by Sir Hugh, Mr. Eden thought the Minister would be taking an infinitely greater risk in approving Mr. Lyons's scheme. The Blackheath Society, through their counsel Mr. David Kemp, supported the LCC and stressed the fact that some thirteen years ago the then Minister of Housing, in view of its importance in relation to the whole of this Paragon development, had expressly excluded this site from the adjoining municipal housing estate. 'Goffers House,' a block of flats recently built by Mr. David Bush, was frequently referred to and described as 'Neo-Georgian' in style!

It was stated that the Blackheath Society, at a largely attended meeting, had passed a resolution, with one dissentient, in opposition to the 'Span' proposals. The Blackheath Park Residents' Association and The Paragon Residents, represented by Mr. Bezzant and Mr. Hollis respectively, spoke in opposition to the 'Span' scheme.

Letters of objection from influential residents, in addition to those already received by the Minister, were handed to the Inspector. Other local residents spoke on the same lines.

The result of the inquiry may not be known for several weeks.

The design which is the subject of the inquiry. Colonnade House is to right



Law Report

Action for Damages Against Architect for Alleged Negligence Dismissed

Court of Appeal. Before Lords Justices Harman and Hodson and Mr. Justice Havers

Armitage v. E. William Palmer and Partners

THE COURT OF APPEAL, on January 20, dismissed, with costs, an appeal by Mr. Lindley Robertson Armitage, chartered accountant, of 63A London-road, Enfield, from a judgment of Mr. Justice Lloyd-Jacob dismissing his action against Messrs. E. William Palmer and Partners, architects, of 8, The Town, Enfield, for damages for alleged negligence in designing and siting a block of flats on his land.

The defendants had denied negligence and said that the building as originally sited did not infringe rights of light. They also denied that they were employed by the plaintiff when building commenced.

Mr. L. A. Blundell, QC, and Mr. C. Priday (instructed by Messrs. Enever, Strong, Freeman and Co.) appeared for the appellant plaintiff; Mr. R. D. Stewart-Brown, QC, and Mr. D. G. Wright (instructed by Messrs. Sydney Redfern and Co.) represented the respondent defendants.

MR. BLUNDELL said the plaintiff employed the defendants as architects but did not require them to supervise the actual detailed building work. The plaintiff's builders, Hubert C. Leach, Ltd., of Cheshunt, had their own architect's department and the plaintiff employed the defendants only up to the point of preparing all plans. The building appeared to offend against a neighbour's ancient lights.

Giving judgment, LORD JUSTICE HARMAN said that after the builders had started digging trenches for the erection of the flats in accordance with the architects' drawings, Mr. Golledge, of 65 London-road, complained that the building would infringe his right to light. Mr. Armitage then sent for the architects' senior partner, Mr. E. W. Palmer, FRIBA, who said that the proposed building would infringe the neighbour's rights.

'An Astonishing Admission'

That was an astonishing admission for an architect, and it was admitted that it was a breach of his professional duty not to have warned his client. In the court below, the case went off on a subsidiary issue, the judge finding that the architects owed no duty to Mr. Armitage because the relationship of architect and client had been ended previously. The architects did not now seek to hold the judgment on that ground.

His lordship continued that Mr. Palmer suggested turning the building, which would have the effect of putting it 4 ft. 6in. further from the boundary, and said that the building would then be all right so far as the neighbour's rights were concerned. This was the negligent advice alleged, and it was said to be wrong advice. Mr. Armitage accordingly had the trenches re-sited.

It was argued that, even if the court held that the advice was not wrong, the court might still find the architects guilty of negligence, because, having started on the wrong foot, they must be particularly careful not to give rash advice which resulted in a renewal of the neighbour's complaints and the starting of a suit in the Chancery Division.

Mr. Golledge took the advice of a light specialist, who contended that Mr. Armitage could be compelled to set back his building so that he could have only three instead of four flats. Mr. Armitage also took expert advice and eventually the action was settled by an agreed order under which the slope of the roof and the height of the eaves were altered. Mr. Armitage sought to recover from the architects some £830 expenses he had incurred, as a result.

In the upshot, it was not for the court to say that the advice Mr. Palmer gave when he advised turning the building was right or wrong. Two experts on the very technical subject of light had been prepared to go into the witness box to give opposite views as to whether he was right or wrong.

In such circumstances, could it be said that Mr. Palmer's advice fell below the standard demanded of an architect that he should act with reasonable professional skill and competence? His lordship did not think so. Mr. Palmer had cured his original negligence when he advised turning the building. He did not then leave out any precaution an architect should have taken except perhaps in not going into the room in Mr. Golledge's property to see how the light might be affected. That was not very essential, because he could judge from the size of the window. Assuming that Mr. Palmer's advice was wrong, his lordship would not hold it to be negligent, because a wrong opinion was not necessarily negligent.

MR. JUSTICE HAVERS and LORD JUSTICE HODSON agreed, and the appeal was dismissed, with costs.

Leave to appeal to the House of Lords was refused.

Development of Birmingham Bull Ring Area

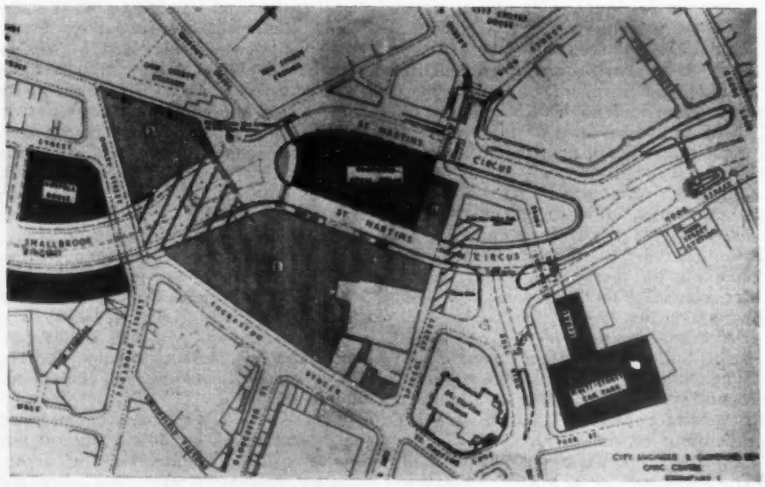
Approval in Principle for £5m. Scheme

BIRMINGHAM PUBLIC WORKS COMMITTEE have approved in principle a £5m. scheme submitted by the Laing Investment Co. Ltd. for the comprehensive redevelopment of a 3-acre site in the Bull Ring area of the city. At their meeting on February 2 the City Council will be recommended to accept the scheme. Construction will be undertaken by John Laing & Son Ltd., and completion is planned by March, 1963.

A statement issued on Wednesday by CLLR. D. S. THOMAS, chairman of Birmingham Public Works Committee, said that plans of the building schemes and in many cases models, in conjunction with the financial offers made for a building lease, have been examined by the Public Works Committee. Some of the schemes did not fully comply with the requirements for the development of the area, as set out in the issued particulars, and the final choice that was the outcome of the consideration given to this matter lay between two schemes both of which were acceptable to the Committee and contained many interesting features. After consideration, the Public Works Committee unanimously decided to recommend the offer submitted by Laing Investment Co. Ltd. to the Council for acceptance.

The development which Laing Investment Co. Ltd. have submitted for the area owned by the Corporation and in private ownership, the statement continues, consists essentially of a building with four main floors, containing the retail markets, 141 shops and departmental stores. It is proposed that the temperatures on these floors shall be controlled throughout the year. In addition, the developers have in mind, amongst other things, open-planned continental-type restaurants and attractive garden displays in the public areas all the year round. There will be a multi-purpose hall or cinema.

There are two main shopping floors separated vertically by a car parking floor from which access is gained to a multi-storey parking tower along the Edgbaston-street frontage of the site. A 7-storey office block rises above the 4-storey 'podium' on site No. 2. Car parking is provided for 626 cars.



Site plan of the Bull Ring area

Modular Co-ordination

Proceedings of UN Committee

PROCEEDINGS OF THE AD HOC MEETING on Standardisation and Modular Co-ordination in Building are now issued by UN from Geneva.

During the past five years, the question of standardisation and modular co-ordination in building has been on the agenda of the Housing Committee and its working parties on a number of occasions. In May, 1954, the Working Party on Cost of Building included the question in its programme, and invited a number of countries and international organisations to provide it with information on the progress of their studies in that field.

In November, 1957, the Housing Committee defined the objectives of the *ad hoc* meeting and invited Mr. Blachère (France) and Mr. Drogeanu (Roumania) to act as rapporteurs and to prepare, together with the secretariat and in consultation with the other international organisations working in this field, a paper setting out detailed arrangements. In compliance with this request the rapporteurs, in collaboration with the Secretariat, drew up, at the beginning of 1958, a provisional agenda for the *ad hoc* meeting, dividing the subject into three main topics of discussions: standardisation at the national level, standardisation at the international level, and international trade in building materials and components. At its sixteenth session, in June, 1958, the Committee approved this document, decided that the *ad hoc* meeting should be held in June, 1959, and invited Mr. Blachère, as general rapporteur, together with experts from a number of other countries, to assist the secretariat in the necessary preparatory work.

The main purposes of the meeting were:

(1) to take stock of the efforts made by governments, the building industry and the professions concerned to promote standardisation;

(2) to illustrate new trends and developments by specific examples of particularly successful applications of standardisation

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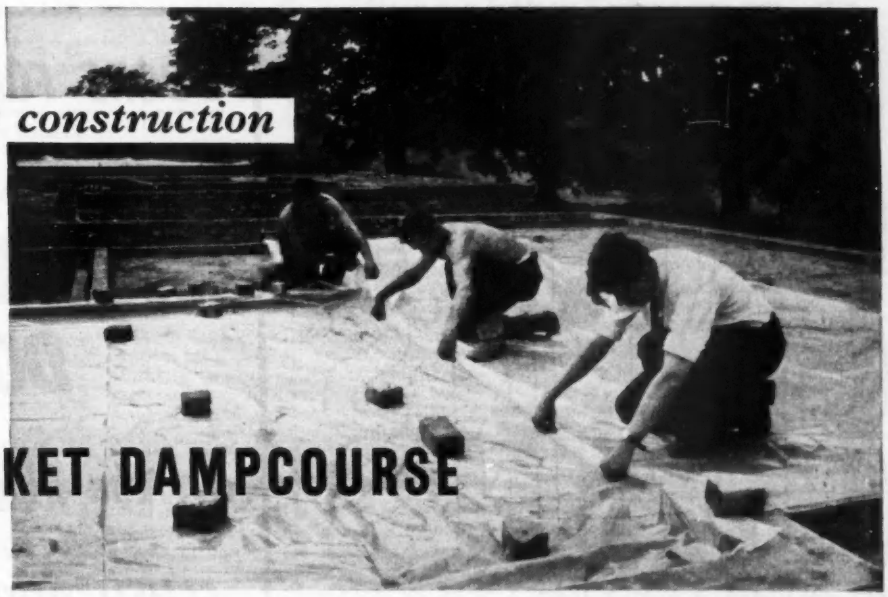

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in different countries and branches of the industry;

(3) to show how standardisation of quality and dimensions can promote the developments of international trade in building materials and components.

The *ad hoc* meeting was held at Geneva on June 17-18 last; its findings and recommendations were afterwards presented to the Housing Committee. A series of recommendations stressed the importance of standardisation in reducing building costs and the part that the authorities can play by encouraging the application of standardisation to house construction. Attention was drawn, in particular, to the various ways in which governments can promote the application of standards in building programmes for which they are directly responsible. Among the many recommendations concerning the need for further action or surveys at the international level was one on which it was recommended that immediate action should be taken: the convening of a symposium of experts to prepare draft rules defining the dimensions of large components used in house construction.

The meeting requested that a brief report on its work, together with the principal documents considered, should be published. In compliance with this request, subsequently endorsed by the Housing Committee, a document has been issued for general distribution. This will be commented on in a later issue of 'The Builder.'

Societies

Association of Official Architects

New Branch Formed

THE NORTHANTS, BEDFORDSHIRE and Huntingdonshire Regional Branch of the Association of Official Architects was formed on December 30 when the following officers and committee were elected: *Chairman*, H. Hartley, ARIBA; *Hon Secretary and Treasurer*, A. F. Paquay, ARIBA. *Committee*, G. W. Waters, ARIBA, F. E. Sherratt, BArch(L'pool), ARIBA, K. G. Dines, ARIBA, R. V. Trigg, LRIBA.

All communications relevant to this Region are to be addressed to the Hon. Secretary, c/o Borough Architect's Department, Town Hall, Luton.

IAAS

Election of President and Council

AT A MEETING on January 23, the Council of the Incorporated Association of Architects and Surveyors elected as its President for the ensuing year Mr. Cllr. W. J. Clark, FIAS, FRSA, MRSH. Elected to the Council of the IAAS in 1950, Cllr. Clark became a Vice-President in 1956 and Chairman of the Council in 1957.

The Council also elected Mr. P. Russell Walker, FRIBA, as Senior Vice-President and President Elect. Mr. A. C. Williamson, was elected Chairman of Council, and Mr. S. R. Nevell, Vice-Chairman of Council. The newly elected Vice-Presidents are: Messrs. S. R. Nevell and R. Mealings. Mr. A. C. Williamson, was elected Hon. Secretary and Mr. S. R. Nevell, Hon. Treasurer.

Furniture of the Future

The Exhibition Reviewed

THE FURNITURE EXHIBITION, open at Earls Court until February 6, takes a look into the 1960s—a period which has interesting possibilities as Sir Gordon Russell expresses in a lively contribution to the current issue of 'Punch.' Since the war there has been an increasing awareness of interior house design and a willingness to experiment with both form and colour. This year, the long, low look is very much in fashion. Cabinet pieces, such as sideboards, are lower in height, influenced, no doubt to some extent, by the increasing size of modern windows which demand low-level units if the window wall is to be utilised.

Multi-height Fittings

Another trend to keep pace with modern homes is the addition of multi-height fittings to the existing ranges of multi-width fittings. These new units give four variations in height so as to allow more furniture to be accommodated in rooms where wall width is scarce and to vary the level of a long line of units. Greater flexibility is another noticeable feature. Whilst unit and dual-purpose furniture has been on the market for some time now, there is evidence of a new approach. One range is based on a 2 ft. 4 in. module and the basic components, cushions, seats and table tops can be arranged in many different ways. Similarly, there is a new dining set in which the sideboard is made up of three units which can be purchased separately and placed side by side. Much of the furniture is very compact, evidence of the generally smaller scale of living accommodation, and one display that catches the eye is a nest of tables, exhibited by Philday Cabinet Co., Ltd., with an ash underframe and anti-acid lacquered plywood top. Bed-sitters can be furnished from a real crop of convertibles and the newest settee beds have one thing in common—all aim at easier conversion.

In the past few years the advance of plastic laminates and man-made fibres in the home has been startling and yet there is plenty of evidence at this Exhibition that the pace in the next ten years will be accelerated. A stand such as J. Berry and Sons, Ltd. will give some idea of the range in which a melamine resin surface is being used. Doors, drawers and decorative surfaces have been given melamine facings, and plastics are also being used to decorate dining furniture in such a way that plastic table tops are matching plastic upholstered chairs. And in the range of kitchen equipment, Formica and Warerite tops for tables and working surfaces seem to be becoming almost standard.

New Furnishing Fabric

There is also a new furnishing fabric, woven from synthetic fibres, which is non-absorbent and from which all stains can be wiped off with a damp cloth. As it is claimed to have five times the wear of ordinary wool moquette it is not surprising to witness its growing popularity, at least at this Exhibition.

The centrepiece of the Exhibition is the stand of the Council of Industrial Design. It is an open-sided stand covering a rectangular area of 1,250 sq. ft. The Council is displaying some forty pieces of furniture which it has selected as typifying present-day trends in furniture design. These are exhibited on nine platforms that rise from the well of the stand, designed to give the impression of room settings.

Another exhibit which is creating a lot of interest is the 'Home by the Sea' displayed by 'Home' magazine. It is intended as a holiday retreat for the professional man, providing a background for boating, bathing and relaxation. Glass, natural wood and plastics have been freely used in construction so that the minimum in maintenance is needed. The home, a two-storey structure, is built on a raised deck clear of shingle. The first floor is only shown in plan form but the ground floor, consisting of living room, kitchen, hallspace and exterior deck area, is exhibited and is worth seeing for some thoughtful use of the timber (supplied by James Latham Ltd.).

Furnishing to a Budget

The theme of the Exhibition is 'Furnishing to a Figure' and to demonstrate how it can be done, five interior designers have furnished the same two rooms in different styles and on different budgets. It is difficult to know who had the harder task, Thurloe Conolly with £100 to spend or Margaret Casson who had money to burn, but it is interesting to note that there is an economy of style in both designs, albeit that one was enforced. In fact Lady Casson has achieved her most dramatic effect by structural change: two-thirds of the floor area has been raised one foot, covered with green slate and furnished as a sitting room and without the use of any form of unit partition or other dividers and the room has been given a completely separate character to that of the adjoining dining area.

All the rooms are worth seeing if only because, like selecting the best England XIs over different periods, it is the sort of game everyone can enjoy without ever reaching agreement.

Obituary

Isaac Ford

THE FUNERAL took place on January 25 of Mr. Isaac Ford of Chellaston, Derby, one of the original partners of Ford and Weston, Ltd., builders. He was 97.

William Scantlebury

WE RECORD WITH REGRET the death of Mr. William Scantlebury, which took place on January 24. He was 80. Mr. Scantlebury joined the Metal Agencies Co., Ltd., of Bristol, at its inception in 1895. He became a director in 1919 and was chairman of the company from 1949 to 1959.

40-hour Week in Civil Engineering

Agreement in Operation During Winter Months

A NEW APPROACH on the question of reduced hours of work was agreed on January 20, at a meeting of the Civil Engineering Construction Conciliation Board when the unions accepted an offer made by the employers to reduce working hours from 44 to 40 per week in the four winter months November, December, January and February. The offer included a compensatory wage increase of 1½d. per hour and an increase in overtime premiums from time-and-a-quarter to time-and-a-half for the first two hours of overtime.

The unions had claimed a 40-hour week throughout the year without loss of pay plus a wage increase of 4d. per hour.

MR. J. MAURICE LAING, chairman of the Federation of Civil Engineering Contractors, said he was glad that the claim had been settled amicably. In making their offer the employers had taken into account the general desire on the part of labour for more leisure and the national need to keep prices steady. The reduction in working hours had been confined to the winter months when, because of poorer site conditions and shorter daylight hours, production would be least affected.

The offer had been made possible by increased productivity resulting from high mechanisation and new techniques, which the civil engineering unions had always encouraged.

Details of Award

The Civil Engineering Construction Conciliation Board has issued the following information on the award:

Operative Date.—Six weeks after acceptance by the unions, viz: February 29, 1960.

Working Hours.—At present, working hours are 44 hours per week throughout the year. They will be reduced to 40 hours per week in November, December, January and February, continuing at 44 hours per week in the remaining eight months of the year. This gives an average of 42⅔ hours per week over the year as a whole.

Basic Wage Rate.—To be increased by 1½d. per hour. At present, navvies' or labourers' basic wage rate is 4s. 4d. per hour in London and 4s. 2½d. per hour elsewhere. The craftsmen's basic wage rate is at present 4s. 10½d. per hour in London and Liverpool and 4s. 9d. per hour elsewhere.

Overtime.—At present, the overtime rates for the first four hours of overtime are time-and-a-quarter for the first two hours and time-and-a-half for the following two hours. Under the settlement, the overtime rate will be time-and-a-half for the first four hours.

The Conciliation Board

The Civil Engineering Construction Conciliation Board for Great Britain was established in December, 1919. The operatives' panel consists of representatives of the Transport and General Workers' Union, the National Union of General and Municipal Workers, the National Union of Enginemen, Firemen, Mechanics and Electrical Workers and certain craft unions, including the Amalgamated Union of Building Trade Workers and the Amalgamated Society of Woodworkers. The employer party to the Board is the Federation of Civil Engineering Contractors.

NFBTE's Comment

A spokesman of the National Federation of Building Trades Employers, asked to comment on the agreement, told 'The Builder' that obviously it would be taken into account in the employers' current negotiations with the labouring unions. It is understood that the 'ad hoc' committee of the National Joint Council for the Building Industry, to whom the latest wage claim has been referred, is due to meet again early in February.

KITCHEN PLANNING COMPETITION: *Design for a kitchen to serve 250-300 lunches and/or dinners a day which has gained first prize of £50 for Miss Gillian M. Grant, of Torquay, in the competition organised by the Gas Council for full-time and part-time students in catering colleges or technical colleges. Judges were: Mme. S. B. Prunier, H. R. Duffield-Harding and P. H. Venning*

The Week in Parliament

By Our Parliamentary Correspondent

A CONTINUING high level of expenditure on Government building and an increased budget for the roads programme is likely to be revealed when the estimates of the various Ministries for the financial year beginning April 1 next are published in February and March as a prelude to the Budget statement by the Chancellor of the Exchequer.

The time of the year is now approaching when both Houses turn their attention to private Bills. Petitions for 36 of them were deposited before the House adjourned for Christmas. At least three of them, the Tyne Tunnel Bill, the Blackfriars Bridgehead Improvement Bill and the British Transport Commission Bill, involve construction projects of considerable size, the last named Bill giving the Commission various powers necessary to proceed with their railway modernisation plans.

The BTC Bill involves the construction of certain works in London and the areas of Bedford, Isle of Ely, East Sussex, Kent, Leicester, Peterborough, Salop, Leeds, Sheffield, York, Monmouth, Newport, Buckingham and Gloucester.

There is sure to be some debate on the Covent Garden Market Bill which the Government will be introducing to set up a new market and a new authority to run it. The City of London (Various Powers) Bill also contains provisions to confer powers on the Corporation of London for the improvement of Spitalfields Market, including the acquisition of land and provision of buildings in Stepney.

Finally, of the Private Members' Bills, there is sure to be considerable interest in the progress of the Offices Bill which, against Government advice, had its second reading before Christmas.

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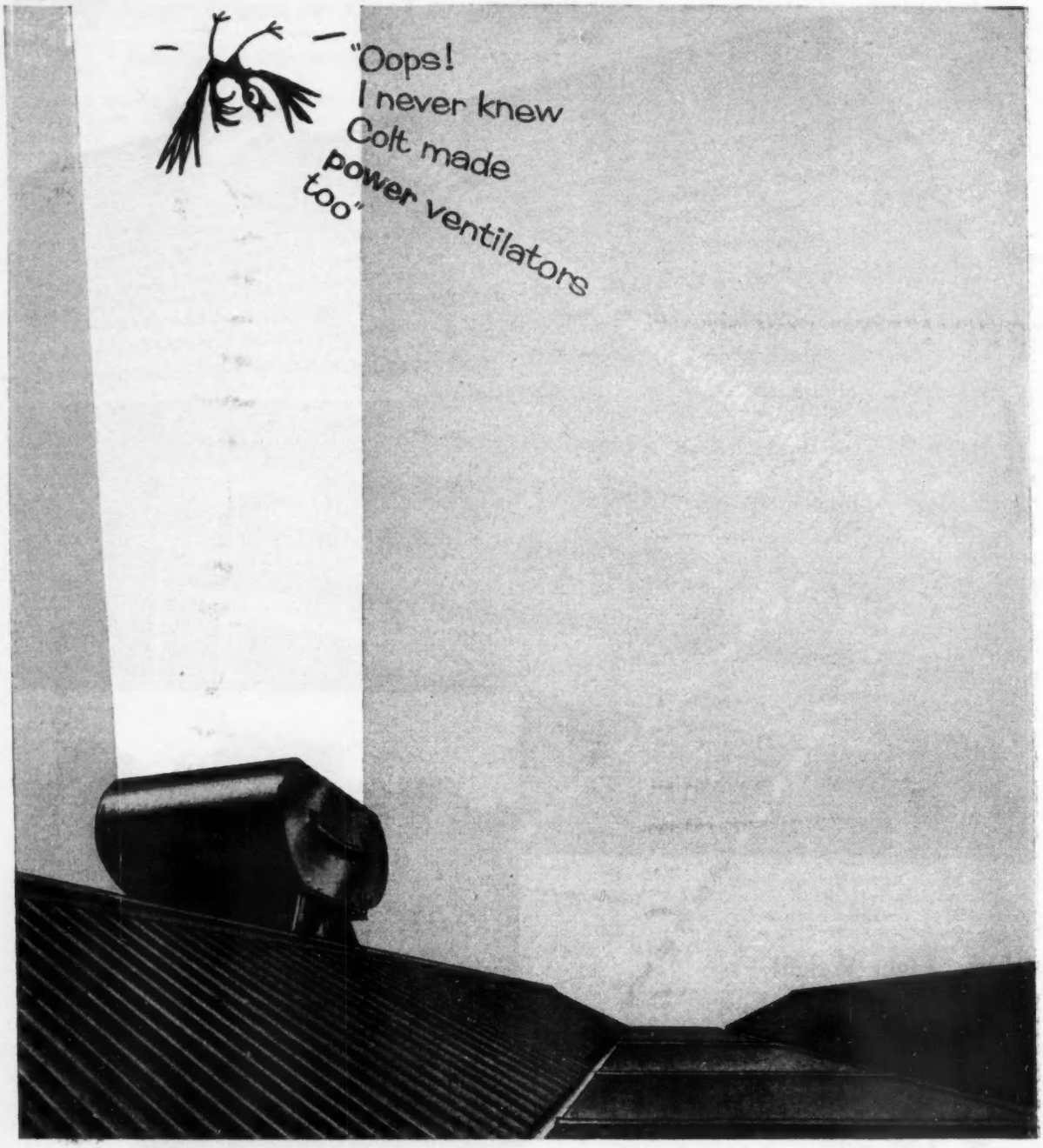

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MoW Winter Lectures

Programme for February

THE FEBRUARY PROGRAMME of Ministry of Works lectures on subjects of interest to the building industry is as follows:

Bradford.—February 2: 'Behaviour of Metals in Buildings,' by R. D. J. Tarleton, at Institute of Technology, Great Horton-rd. 7.15 p.m.

Glasgow.—February 2: 'Modern Painting and Decorating,' J. Wilson, Wilson Colour Ltd., at Royal College of Science and Technology, George-st. (Room 24). 7.15 p.m.

Edinburgh.—February 3: Ditto, at Royal Society Hall, 24 George-st. 7.15 p.m.

Chelmsford.—February 3: 'Settlement of Buildings,' by S. R. Rosenak, at Mid-Essex Technical College and School of Art, Moulsham-st. 7.30 p.m.

Bognor Regis.—February 4: 'Developments in Paint and Painting,' by B. Butler, at Technical Institute, Southway. 7.15 p.m.

Cheltenham.—February 4: 'Maintenance of Buildings,' by F. T. Griffiths, at North Gloucestershire Technical College, The Park. 7.15 p.m.

Dundee.—February 9: 'Design and Cost of High Flats,' by T. L. Knight, at Royal Hotel. 7.15 p.m.

Huddersfield.—February 10: 'Glued Timber Laminations,' by W. A. Chugg, at College of Technology. 7 p.m.

Westminster.—February 10: Discussion: 'Cost Consequences of Co-ordinated Dimensions,' by J. Barratt, H. J. Crookshank, W. A. Allen, RICS, 12 Great George-st., SW1. 6.30 p.m.

Redruth.—February 11: 'Developments in Paint and Painting,' by B. Butler, at Cornwall Technical College, Trevenson, Pool. 7 p.m.

Nottingham.—February 12: Brains Trust: Building as a Career, at Nottingham and District Technical College, Burton-st. 7.15 p.m.

Cambridge.—February 15: 'Building High,' by N. Wakefield, at Technical College and School of Art, Collier-rd. 7.30 p.m.

Chester.—February 15: 'Thermal Insulation of Buildings,' by N. Foster, at Lecture Theatre, Grosvenor Museum, Grosvenor-st. 7.15 p.m.

York.—February 16: 'The Builder and his Contract,' by R. Proctor, at Department of Building, Technical College, Tadcaster-rd. 7.15 p.m.

Cardiff.—February 17: 'Introduction to Programming and Progressing for Builders,' by A. E. Chittenden, at Ballroom, Grand Hotel. 7.15 p.m.

Darlington.—February 17: 'Good Practice in Building Drainage,' by F. J. Crabb, at College of Further Education, Northgate Building. 7.15 p.m.

Preston.—February 17: 'Modern Timber Construction,' by H. Wilkinson, at Harris College, Corporation-st. 7.15 p.m.

Willesden.—February 17: 'Four New Techniques in Building,' by D. Bishop, at Willesden Technical College, Denzil-rd., NW10. 7.15 p.m.

Liverpool.—February 18: 'Small Pipe Central Heating,' by D. V. Brook, at Lecture Hall, College of Technology, Byrom-st. 7.15 p.m.

Maidstone.—February 18: 'Oil-Fired Domestic Heating Installations,' by C. A. Roast, at Technical College, Tonbridge-rd. 7.15 p.m.

Redruth.—February 18: 'Dry Rot—Causes, Remedy and Prevention,' by B. W. Eades, at Cornwall Technical College, Trevenson Pool. 7 p.m.

St. Albans.—February 18: 'Safety in the Building Industry,' by J. A. Hayward, at Hertfordshire College of Building, Hatfield. 7.15 p.m.

Hammersmith.—February 19: 'New Developments in Plumbing and Draining,' by F. L. Barrow, at Hammersmith College of Art and Building, Lime Grove, Shepherds Bush, W12. 7.15 p.m.

Carlisle.—February 22: 'Dampness in Buildings,' by W. A. Hammond, at Carlisle Technical College, Victoria-pl. 7 p.m.

Lewisham.—February 22: 'Settlement of Buildings,' by S. R. Rosenak, at South East London Technical College, Worsley Bridge-rd., Lower Sydenham, SE26. 7.15 p.m.

Oxford.—February 22: Discussion: 'Value for Money in Building,' by R. Duncan Scott, A. Burnand, W. S. Jones, at Therm-hse., St. Aldates. 7.15 p.m.

Bridgend.—February 23: Film Show: 'Building and Civil Engineering Subjects,' at Technical College. 7 p.m.

Aberystwyth.—February 24: Ditto, at Belle Vue Hotel. 7 p.m.

Birmingham.—February 24: 'Defects in Brickwork,' by L. W. Baldwin, at Lecture Theatre, Ministry of Works, Five Ways House, Islington Row. 7.15 p.m.

Doncaster.—February 24: 'Small Heating and Ventilating Systems,' by A. N. Robinson, at Department of Building, Technical College, Waterdale. 7.15 p.m.

Gloucester.—February 24: 'Electric Floor Warming,' by F. R. Crook, at Gloucester Technical College, Brunswick-rd. 7.30 p.m.

Lancaster.—February 24: 'Work Study in Building,' by R. Geary, at Town Hall. 7.30 p.m.

Newport, IoW.—February 24: 'Concrete Placing and Formwork,' by A. B. Harman, at Technical College, Hunnyhill. 7 p.m.

Norwich.—February 24: 'The RIBA Form of Contract,' by I. N. D. Wallace, at City College. 7.15 p.m.

Neath.—February 25: 'Clerical Methods in Builders' Offices,' by K. C. Symons, at Technical College. 7 p.m.

Portsmouth.—February 25: 'Thermal Insulation of Buildings,' by R. R. Houston, at College of Technology, Anglesea-rd. 7.15 p.m.

Redruth.—February 25: 'Electric Floor Warming in Practice,' by R. M. Lang, at Cornwall Technical College, Trevenson Pool. 7 p.m.

Chatham.—February 26: 'Practical Formwork, Design and Construction for Concrete,' by J. R. Richardson, at Medway College of Technology, Maidstone-rd. 7.15 p.m.

Saturday Morning Work—A Legal Case

Vital Evidence Withheld

From a Legal Correspondent

THE COURT OF APPEAL recently in the case of *Devenish v P. D. I. Homes (Hythe) Ltd.* considered certain matters arising out of a dispute between a foreman in the building trade who was the plaintiff in an action against his employers.

The plaintiff had claimed damages for breach of contract from the defendants and alleged that he had been wrongly dismissed. The question at issue was whether there was a term in his employment that he was not to work on Saturday or whether, as alleged by the defendants, he was engaged on normal working hours, namely 8 a.m. to 5 p.m., less one hour for lunch from Monday to Friday, and from 8 a.m. to noon on Saturday.

The matter came before the Registrar of the Southampton County Court instead of the judge, by consent of the parties, who decided in favour of the builders, holding that the defendants were justified in dismissing the plaintiff for not attending at work on Saturday morning. The plaintiff applied to the judge who was prepared to grant a new trial because the plaintiff had corroborative evidence in court at the first trial. This evidence was that he did not work on Saturdays when he was first employed except on one occasion. This had not been called for by his solicitor.

The Court of Appeal would not accept that a new trial was possible following the principles enunciated by Lord Loreburn L.C. in *Brown v Dean* in 1910. This was that the discretion granted under County Courts Act 1888 S.93 must be exercised judicially and not arbitrarily. In this case there was no new information which could not have been produced at the first trial. These principles still applied under the new county court rules.

Under an 1899 case, *Young v Kershaw, Burton v Kershaw*, the basis of a new trial should be that the person asking for it should not be remiss in adducing all possible evidence and that the new evidence would be such as to render it probable almost beyond doubt that the verdict would be altered.

This case is a warning to builders and their advisers that it is most important to have all evidence available at the initial trial.

Success of BAS

More Courses to be Organised

MR. T. V. PROSSER, National President, speaking at the annual general meeting of the South Wales Federation of Building Trades Employers, Cardiff, on January 22, said that the building Advisory Service was now firmly established in the industry.

'Its order book is full for many months to come,' he declared. 'So much so that it is compelled to adopt an almost permanent recruiting campaign for management consultancy staff. Many testimonials have been received from firms who have used the service and all bear witness to the value of the advice and guidance given and the advantages they have gained.

'There is a growing awareness among firms, both large and small,' Mr. Prosser continued, 'that not to use the Building Advisory Service is to put them at a disadvantage with their competitors. In the future, in addition to the individual assignments it carries out on behalf of building firms, the service will be organising more courses and conferences on management and supervisory subjects than ever before. I suggest that building trades employers take the opportunity to go on these courses themselves or to send their representatives to them.'

New Chairman for BIM

Mr. H. P. Barker, chairman and managing director of Parkinson Cowan Limited, has been elected chairman designate of the British Institute of Management. He will succeed Lord Verulam at the annual general meeting in October.

Builders Fined £25 for Breach of Safety Regulations

Two Men Killed by Collapse of Trench

C. BRYANT AND SONS, LTD., the Birmingham firm of builders and civil engineering contractors, were fined £25 at Shrewsbury on January 15 on a charge arising from a trench collapse which caused the deaths of two workmen at Hook-a-Gate railway sidings, near Shrewsbury, on October 27 last. Costs of £3 6s. were awarded against the firm.

The company denied contravention of the Factories Act regulations covering precautions to ensure the safety of persons to whom the Act applied. Announcing the decision of the Bench, however, MR. EDWARD JACKSON, the chairman, said: 'The men responsible for the work on this site were aware that the soil was likely to cause difficulties in digging the trench. They did not take precautions appropriate to the conditions.'

Prosecuting, MR. R. J. HUGHES, HM Inspector of Factories, said that the two operatives were killed when a newly excavated and untimbered section of a 16-ft. trench suddenly collapsed on them as they were timbering it. A considerable depth of the trench was made-up ground and there had been heavy rain immediately before the accident.

MR. GEOFFREY BAKER, senior engineer attached to civil engineering headquarters of the Factory Inspectorate, said that he was 'rather alarmed' when he examined the trench after the accident. The shoring methods used were not those of standard practice.

Three engineers called by the defence said that the timbering methods used by the company at Hook-a-Gate were universally accepted by the building industry as being the safest.

The site foreman, PATRICK JOSEPH GALLAGHER, said that the method was agreed by timbermen to be the most satisfactory. There was an adequate supply of timber at the site and both of the operatives were experienced in that type of work. MR. DAVID HARRIS, for the defence, submitted that all reasonable safety measures had been observed. The men killed were 'pioneers,' he said, who were making the way safe for further work in the trench and it was generally recognised that there was an occupational hazard attached to this preliminary timbering work.

The court was told that in more than 50 years this was the first prosecution of its kind to be brought against Bryants.

Avoiding a Brick Shortage

Builders Urged to Buy in Advance

MR. HARMAR NICHOLLS, Parliamentary Secretary to the Ministry of Works, during a tour of Midland Brickyards on January 22, urged builders to order their supplies of bricks well in advance to avoid the risk of a shortage later in the year.

Mr. Nicholls said the object of his tour—the first of several he will be making to different parts of the country—was to persuade manufacturers to make the best use of their capacity. Stocks of bricks had fallen from 440m. last year to 120m., he said, but production was being accelerated by 15 per cent.

If builders ordered their supplies well in advance and did not over-order, a shortage this year was unlikely. There was likely to be more private enterprise building than ever this year, which meant that the demand would increase.

AEA Place Package Contract

Fuel Element Laboratory, Windscale

MESSRS. E. G. IRWIN AND PARTNERS, LTD., engineering design consultants, of 2 Princes-row, SW1, have been appointed as agents by the UK Atomic Energy Authority to design and equip an irradiated fuel element cave laboratory at Windscale, Cumberland. The facility is being installed in the blower houses of No. 2 reactor which was closed down as a safety measure in 1957.

Mr. E. G. Irwin states that the work involved can be divided into four groups: civil and building; heating and ventilating; special purpose equipment; and electrical and instrumentation. Control of 'a project such as this,' said Mr. Irwin, 'which requires a large number and variety of specialist engineers and designers, has been made very much easier with all the departments under one roof.' His firm will place and control all contracts; that for the building work involved has gone to John Laing and Son, Ltd., of Mill Hill, NW7.

Windscale was built for the AEA under the control of the Ministry of Works who, in 1957, handed back responsibility, other than for Aldermaston, to the Authority to which it also seconded key technicians.

Small Builders and Large Contracts

Consortium to Purchase Plant?

SPEAKING at the annual dinner and dance of the Sheffield Federation of Master Builders, the Lord Mayor of Sheffield, ALD. A. V. WOLSTENHOLME, said it might embarrass some of their members if they were asked to take on large municipal contracts, and suggested that in order to compete with outside contractors they might consider forming a kind of consortium to purchase plant to undertake such work and so be able to play a bigger part in building up the city.

The Lord Mayor was replying to the president of the Federation, MR. C. J. ATKINSON, who had deplored the fact that so many municipal contracts went to firms outside the city. Mr. Atkinson said the influx in force of contractors from outside the city was very disturbing.

He went on: 'These outside contractors take revenue out of the city and do not support local manufacturers or merchants, which is not good for local trade in general.' He would like the local authority to realise that when accepting the lowest apparent outside tender, the apparent gain might be more than offset by a loss to local trade and purchasing power of workers.

War Damage Payments

The Commission's Work in 1959

THE WAR DAMAGE COMMISSION paid out £13½m. during 1959 compared with £19¾m. in 1958 and £23¼m. in 1957.

The Commission paid 5,565 'cost of works' claims for repairs during the year, and made 1,902 payments on account or as instalments. The amount involved was £11½m. of which nearly £1¼m. was for the repair and rebuilding of houses. Other principal items were: Commercial buildings, £2¼m.; factories, £1½m.; churches, £3m.; shops, £1½m.

Total war damage payments made by the Commission now amount to £1,255½m. in 4,732,000 separate payments.

Following are details of the total amounts paid by the Commission up to the end of 1959.

	£
Inner Temple / Middle Temple	2,001,636*
Southwark RC Cathedral ...	260,243
Spurgeon's Tabernacle	145,930*
Gray's Inn	972,491*
St. Clement Danes, Strand ...	107,568
A block of offices in London ...	492,857*
London Departmental Store ...	242,246*
Coventry Cathedral	534,053*
St. Nicholas Church, Gt. Yarmouth	276,350*
Factory in London	402,571*
London Furnishing Store ...	920,000
Midlands Departmental Store	133,500
Clothworkers' Hall, London ...	242,385*
Carpenters' Hall, London ...	163,100*
Departmental Store in N. Ireland	226,784
Guildhall, Portsmouth	630,000*
St. Mary's Church, Swansea...	139,463
Theatre in London	92,235*
Assembly Rooms, Bath... ...	86,244*

* Not yet completed.

Invitations to Tender

Middlesex CC Amend Regulations

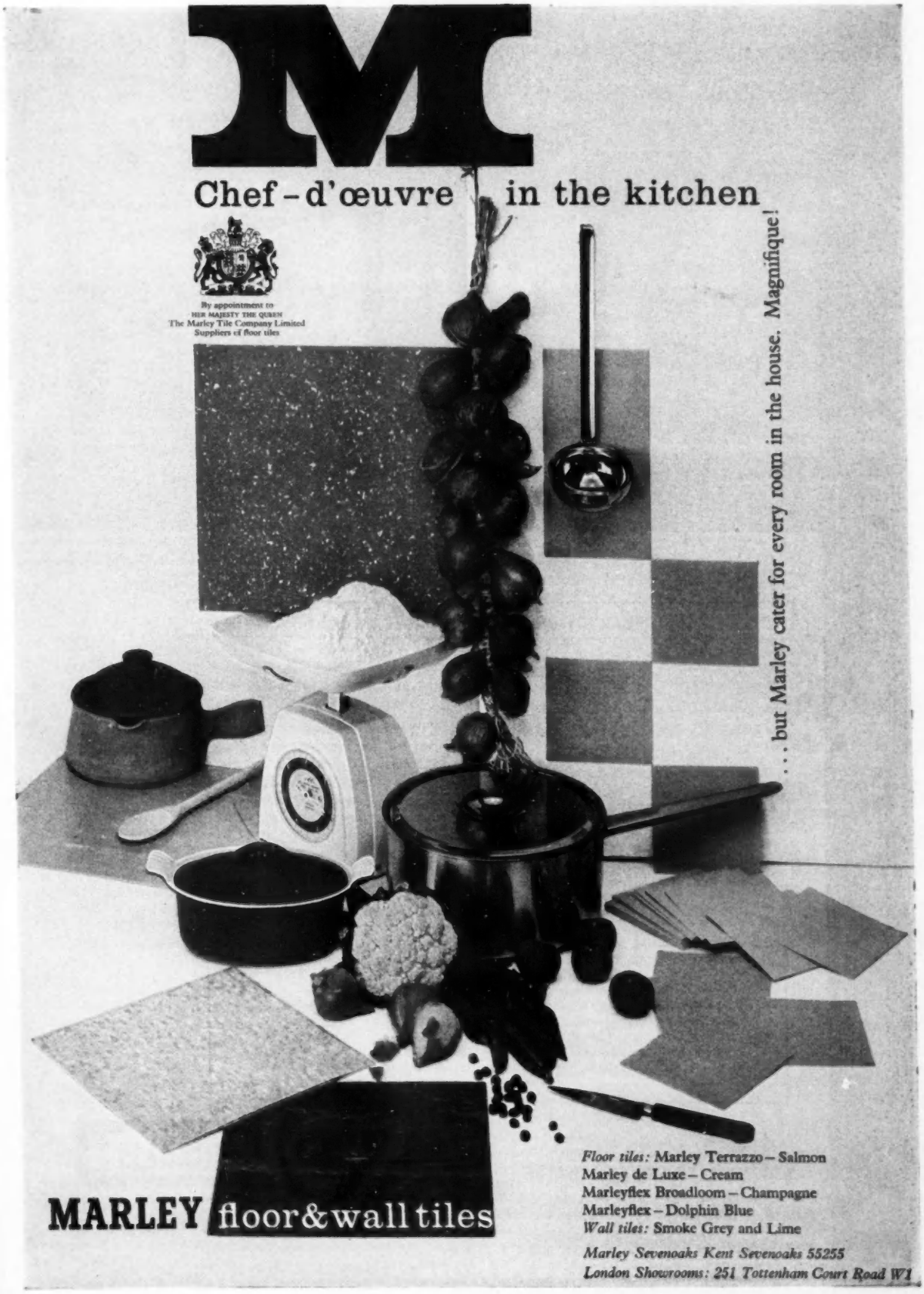
MIDDLESEX CC IS RECOMMENDED by its building committee that inasmuch as £3,000 is the maximum value of works recognised by the building industry for dispensing with the necessity for bills of quantity, this figure should be regarded in general as the maximum limit for allowing discretion to be exercised to dispense with competitive tendering for building works in appropriate cases. Where, however, competitive tenders are invited for works estimated not to exceed £3,000, the Council is recommended that normally at least five tenders should be invited from persons on the appropriate selected list of contractors. The guiding scale now is:

Estimated value exceeding £3,000 but not exceeding £5,000: six persons to be invited to tender;

Estimated value exceeding £5,000 but not exceeding £50,000: eight persons;

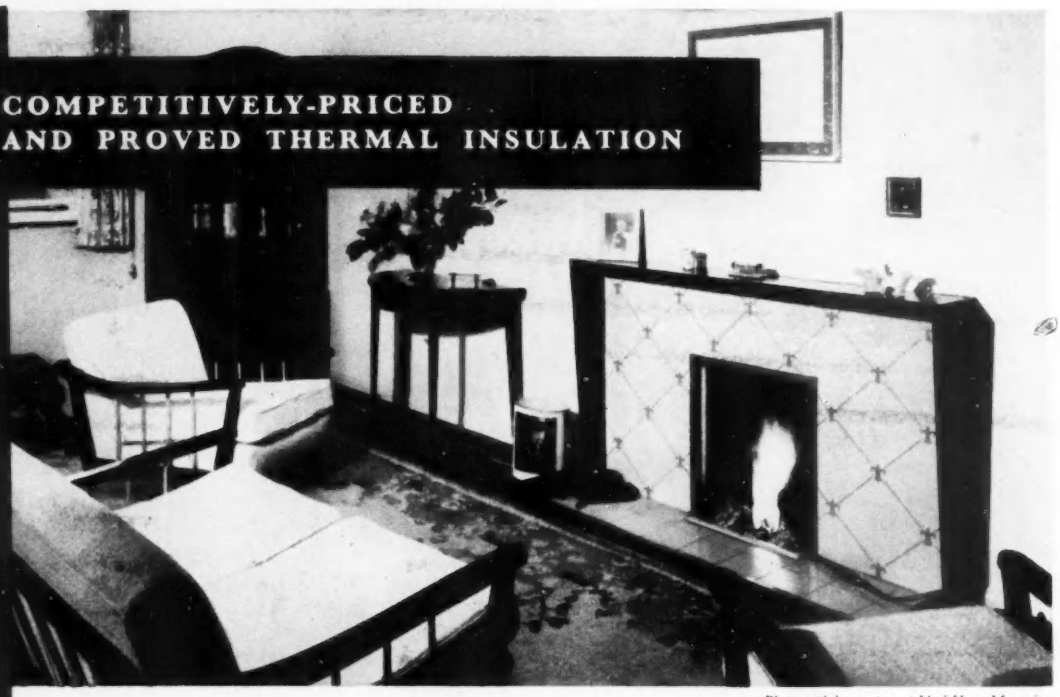
Estimated value exceeding £50,000 but not exceeding £100,000: ten persons; and

Estimated value exceeding £100,000: twelve persons.


M
Chef-d'œuvre in the kitchen
By appointment to
HER MAJESTY THE QUEEN
The Marley Tile Company Limited
Suppliers of floor tiles
. . . but Marley cater for every room in the house. Magnifique!
Floor tiles: Marley Terrazzo – Salmon
Marley de Luxe – Cream
Marleyflex Broadloom – Champagne
Marleyflex – Dolphin Blue
Wall tiles: Smoke Grey and Lime
Marley Sevenoaks Kent Sevenoaks 55255
London Showrooms: 251 Tottenham Court Road W1
MARLEY floor&wall tiles

CUT THIS OUT AND KEEP FOR REFERENCE

COMPETITIVELY-PRICED AND PROVED THERMAL INSULATION



Photograph by courtesy of Ideal Home Magazine.

At "New Britwell", a house at Maidenhead. *Architect:* Michael H. H. Bayley, A.R.I.B.A.

PRACTICAL CONSTRUCTION

ROOF
Tiles on felt
2-3 inches slag wool.

CEILINGS
Plasterboard and skim coat.

EXTERNAL WALLS
Ground floor: 4½-in. brickwork, 2-in. cavity, 4-in. Thermalite, two-coat plaster.
First floor: Tyrolean rendering, 3-in. Thermalite, 2-in. cavity, 4-in. Thermalite, two-coat plaster.

PRACTICAL CONSIDERATION

The owner writes regarding the efficiency of the Thermal insulation.

'The only further comment that I can add after nearly three years' occupation is that the heating system was unnecessarily large, the bedroom radiators only being used occasionally and it is only during very cold spells that it has to be stoked more than every other day."

PRACTICAL CONFIRMATION

The thermal conductivity (k) of cellular concrete of 50 lbs. cu. ft. density according to the I.H.V.E. guide 1955 conditioned at 64° F 65% R.H. 1.4 B.T.U.'s etc. This corresponds to the normal conditions in the average heated home during the winter months where a Thermalite inner leaf will have an equilibrium moisture content of approximately 4%

THERMALITE YTONG LIMITED
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A LAING COMPANY

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Loadbearing Insulating Building Blocks

Pattern for the Future

The Need for a Fresh Approach to Research and Development in the Building Industry

By G. H. Wagstaff

WHILE all members of the building team must be forward looking if they are to keep abreast of the times, which section is faced with the greatest difficulty in seeking to lay the foundations of long term developments? Is it the planner, the contractor or the supplier of the basic materials? Having had many years of experience in categories two and three, I have no hesitation in stating that it is the basic materials producers who are faced with the main problem. I know it can be argued most forcibly that the designer and constructor have played a great part in developments during the past two decades, but they are in many respects dependent upon the materials producers.

There have been numerous discussions, symposia, demonstrations, trials, research programmes of all sorts since the war, and all aimed at a furtherance of better and more productive building. A considerable measure of success has been achieved, but it is to be regretted that time is showing that a good many of the ideas, suggestions and much-hoped-for innovations have not proved in practice to be up to the standard of the theorists.

There must, of course, be trial and error. It seems to me, however, that it is time we began as a team to examine some of our theories, to look farther into the cause of some failures and to endeavour to start thinking and planning on more co-operative lines.

A few years ago there was a determined appeal for manufacturers of building materials to tackle the problem of prefabrication. A measure of successful development has taken place in this field; more will follow, but the fact remains that the manufacturers of some building materials would today be facing bankruptcy if they had gone against their better judgment and succumbed to the popular cry. In some types of construction prefabrication has effected savings and resulted in greater production.

Prefabrication and Economy

The recent report, 'A Study of Alternative Methods of House Construction,' from the Building Research Station has surprised some in its finding that the use of prefabricated parts in building houses is not sufficiently economical. Already, one can hear many voices saying 'I told you so.' Yet, one paragraph in the report is not without significance: 'It cannot be concluded from these results that factory-made components will invariably be more expensive, but they do prove that the problem facing prefabrication is not a simple one.'

Far from simple. Although there are some designers who decry the apparent lack of effort on the part of materials producers towards improved methods and techniques, this attitude is not entirely justified. Neither is the view taken by some materials producers that any new idea in design is automatically suspect.

The reasons why some advances are limited in application are many. Buildings with enormous free open spaces of striking appearance are possible by the use of reinforced concrete used in skeleton frames. For obvious reasons the application of this method to houses and bungalows cannot offer the advantages to be found in the erection of large public buildings. Laminated timber frames and shells appear to be rivalling concrete. Yet there may still be a great future in the marriage of many of the traditional materials with the methods of present and future.

Possibilities of Reinforced Brickwork

Structurally and aesthetically reinforced brickwork can offer possibilities beyond our present limited ideas. We hear much about developments of all kinds in Russia, and in building there is no dearth of the reports emanating from that country. Certainly they appear to be adopting a system of site prefabrication of brickwork which, with the aid of massive cranes, contributes speedily to the erection of large blocks of buildings.

What a pity that the trouble in chimney stacks and discoloured plasterwork, due to condensation of moisture in flues serving domestic slow-combustion boilers was not foreseen. The principles that should be considered when building flues serving this type of boiler are dealt with in the Building Research Station Digest No. 60 'Condensation in Domestic Boiler Flues.' The recommendations made in it have been incorporated in the specifications for houses built by many organisations. At present, however, they are not obligatory. The benefits of slow-combustion boilers properly installed do not require elaboration. The manufacturers of the stoves are not to blame.

In the early stages, those responsible for installation of these stoves could be excused for their mistakes. Came the awakening. Investigation, cause, effect and—thanks to the Building Research Station—prevention and/or cure. Now, the point I wish to make about this particular problem is that mainly through ignorance a lot of damage was caused unnecessarily. I wonder if similar mistakes may occur in other ways in connection with new materials, new methods, new techniques?

Trial and error has played an important part in developments in all industries throughout civilisation. Perhaps it is presumptuous to suggest that in this modern age, trial and error should be subjected to far more intensive research. At the centre of all our efforts towards new methods, new techniques, new materials, is this question of research. For an industry responsible for some £2,000m. of capital expenditure yearly, we spend little on *organised research*. We expect too much of the BRS. For obvious reasons, trade associations, etc., and the larger producers jealously safeguard their own particular interests—understandably so. Surely there is a case for more integration of private research efforts, for more research generally in an effort to find a basis for greater efficiency in the overall pattern of building in this country?

There is nothing wrong in searching for the spectacular, for making a tremendous impact upon the market, but there is something basically wrong when research tends to overlook the basic elements. With all the market study and research today, I wonder if any accurate picture could be produced of the numbers of new units in the housing, industrial and public building sectors required during the next five, 10 or 20 years? Equally important, how accurate are the assessments of slum clearance and modernisation, etc., programmes? Surely, there is a definite need to prepare a schedule and agree standards that will enable a steady programme of work in all sectors to be accurately assessed. Only by so doing can a broad plan be envisaged that will help research workers in all fields to aim in those directions which will be most beneficial to the industry in both the long and short terms.

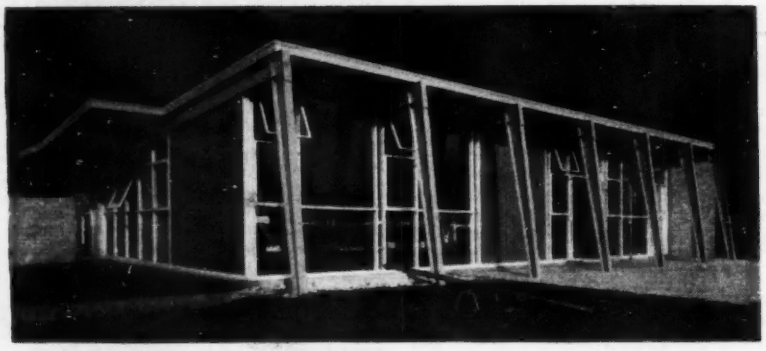
Thanks are due to those who have brought about developments of considerable importance thus far. Likewise the work of those responsible for British Standard Specifications, members of the Modular Society, and so on. There must be many smaller manufacturers who would like to feel that they can bring a measure of help in the advances overdue. Can a scheme for intensive research be worked out? Can more facilities be provided in the matter of scientific teams or of finance for building up the teams required?

Some of the failures in the past are sufficient to point out the direction in which we should be headed today. More regard must be paid to the English climate. Buildings suitable in other lands may be æsthetically acceptable here, but often they fail functionally. Here again, we are learning the hard way, but I venture to suggest that greater care should be given to the problems of moisture penetration and the question of low altitude sunlight in relation to tall buildings. In matters of design, of *modus operandi* and of materials used therein we have a long way to go.

East Riding Development Plan

The Minister of Housing and Local Government has approved with modifications the development plan for the East Riding of Yorkshire.

Offices in Adelaide designed by Messrs. Cheesman, Doley, Brabham and Neighbour, architects, engineers and town planners, for their own use



Pre-school centre and premises for the Mothers and Babies Health Association, Adelaide. Architect : Mr. P. R. Claridge, FRIBA

The Church of the Holy Name, St. Peter's, Adelaide. Architects: Messrs. Michelmore, Roeger and Russell.

Building in Australia

From a Correspondent

AUSTRALIAN BUILDING is notable for its use of the most advanced methods of construction and the internal services provided for the comfort of the occupants. A selection of recently completed buildings shows that although architects are making full use of external cladding material to produce varied and interesting textures, the overall designs are much the same as their European contemporaries. The Australian architect has not yet evolved a style which may be called 'Australian.'

An example of the use of contrasting materials externally is a professional office building, designed by Messrs. Cheesman, Doley, Brabham and Neighbour, of Adelaide, for their own use. In planning a scheme was evolved for the ultimate development of a 100-ft. square site containing an existing building to provide an elevated floor set above a central garden court, with parking, services and entrance areas around the perimeter. The building as completed now forms the first stage.

The structure is steel framed with concrete floors and 4-in. concrete block walls. The columns to the ground floor are encased in concrete and rendered. Steel windows are used with marble and glass exposed aggregate and Okal board panels internally. The first floor ceiling is compressed straw with double-sided foil sisalation above, partitions are metal framed with cored veneer faced panels, floor coverings are vinyl tile and the roof constructed with galvanised steel decking on open web steel joists. The offices are air-conditioned throughout.

The Church of the Holy Name at St. Peter's, Adelaide, is a steel portal frame structure with cream clay brick external and internal walls and a concrete floor slab with vinyl tile coverings. The roof is constructed with timber boarding on joists covered on the underside with polished Queensland maple fixed diagonally in bays. The windows are timber framed with fixed metal box section vertical sun louvres. The cross suspended from the entrance canopy and columns is made from boxed section copper, polished and lacquered, and contains a vertical fluorescent tube which provides back lighting. The contract figure was £A28,650.

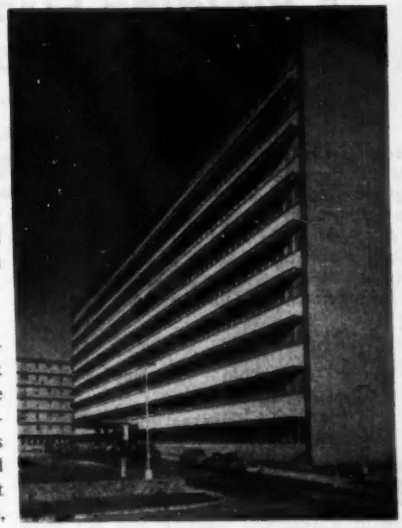
A pre-school centre for the Mothers' and Babies' Health Association in

Adelaide is an interesting single storey structure designed by Mr. Philip R. Claridge. It is constructed with Paringa pressed cement bricks, coloured red on the front elevation and buff to the side elevations. Part of the external walling is constructed of Meranti vertical boarding on framing with painted hardboard internally. The floor is solid concrete with *in situ* vinyl flooring. The roof is supported on rsj frames and comprises corrugated iron sheeting on timber purlins.

The new administration offices, wholesale department and factory for Kodak (Australasia) Pty. Ltd., in Adelaide were designed by Messrs. Hassell and McConnell of North Adelaide. The building has a 90 ft. frontage and is of steel framed construction on a 30 ft. x 30 ft. grid. It comprises three storeys and a tank room, but has been designed with a view to the future addition of two more floors.

The front (north) of the building is cantilevered 10 ft. to give an uninterrupted view of display areas and is provided with fixed lightweight precast concrete fins for sun protection. 'Vitrolite' panels are used at floor levels in the aluminium frames and as an infilling to the dark room windows. Polished Dromana granite facing is used on the main entrance and plinths, and Travertine marble wall lining in the first floor level hallway.

The Queen Elizabeth Hospital at Woodville, in South Australia, designed by Messrs. Stephenson and Turner, of Melbourne, in association with Caradoc Ashton, Fisher, Woodhead and Beaumont-Smith, of Adelaide, is part of a £7m. project completed in 1958. The accommodation comprises a 9-storey 372-bed general hospital; a 6-storey 114-bed maternity section; a 6-storey wing to house 78 resident medical officers; an 8-storey nurses' home to house 430 nurses; and a boiler house, workshop, paintshop, public canteen and other subsidiary outbuildings.



General Hospital, Woodville, South Australia. Architects: Messrs. Stephenson and Turner of Melbourne.

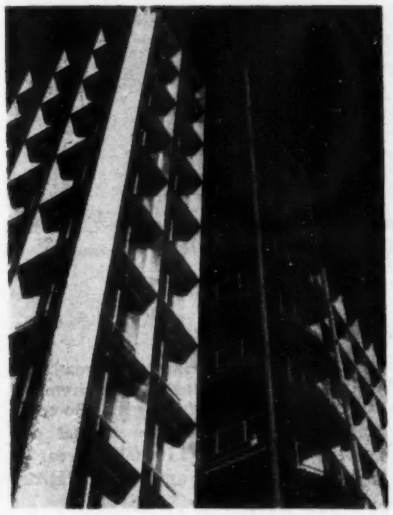
The building is of steel framed construction on pile foundations. The floors are concrete, precast in 50-ft. square panels for speed of erection. External cladding is composed of precast concrete panels faced with white marble chips. Windows are aluminium double hung sashes with flyscreens; horizontal aluminium louvres provide protection from the sun. The roof is sealed with galvanised steel decking.

An office block designed by Messrs. Bates, Smart and McCutcheon of Melbourne, for the Mutual Life and Citizens' Assurance Co. Ltd., was planned on a grid of 3 ft. 1½ in., giving vertical curtain wall pins at 6 ft. 3 in. centres and columns at 18 ft. 9 in. centres. The building comprises a basement and eleven floors.

It is a steel framed structure of lightweight design with 2 in. fine concrete floor slabs on pressed galvanised iron troughs. The 6 in. troughs are also used for services and air conditioning which is carried through the centre of the building to the perimeter ducts of the floor above. The external treatment to the main building is aluminium curtain walling with fins constructed of boxed section sheets and angles bolted through to the curtain walling with the hoods slung between. The fins serve the dual purpose of sun shields and access for window cleaning. A 3 ft. vertical barrier at each floor level is constructed of 2½ in. precast vermiculite concrete slabs with armour clad coloured glass as external cladding.

The building is serviced with three automatic gearless lifts installed at a cost of £53,000 and air conditioned with a £100,000 plant operating from both basement and roof levels and zoned to east and west areas. The supervising architects were Messrs. Cheesman, Doley, Brabham and Neighbour of Adelaide. The building gained the RIBA Architecture Medal Award, 1959.

Offices for the Mutual Life and Citizens' Assurance Co., Ltd., Adelaide. Architects: Messrs. Bates, Smart and McCutcheon of Melbourne



Factory and offices for Kodak (Australasia) Pty., Ltd., Adelaide. Architects: Messrs. Hassell and McConnell

Society of American Military Engineers

London Dinner Meeting

THE LONDON POST of the Society of American Military Engineers held its monthly dinner meeting on January 12 at the USAF Columbia Club, Lancaster Gate. The guest speaker at this meeting was MR. WILLIAM JAMES, FRICS, chairman of the Quantity Surveyors' Committee of the Royal Institution of Chartered Surveyors, and the title of his talk was, 'Why the Quantity Surveyor?'

Mr. James gave a very informative talk which enlightened all American members, and possibly some British members also, on the establishment, services provided and the fundamentals of the quantity surveying profession. To stimulate questions, Mr. James closed his talk with the question, 'Would the British pattern of quantity surveying, or some variant of it, be beneficial in the USA?'

The evening provided an excellent opportunity for the American members to become more acquainted with one phase of the British building industry.

A Building Firm Steps Out

The Case History of A. Head, Ltd.

2.—'Father's Turn to Listen'

In the first instalment of this case history ('The Builder' of January 15) we saw the beginning of the growing pains which overtook Albert Head and his family firm as it commenced to develop from the one-man business which he had begun in 1926 to a stage, 32 years later, where 200 men were employed and the turnover was approximately £350,000. At that point in time the company's board meetings (as Mr. Cecil A. Francis, head of the Building Advisory Service, narrates) were largely 'an informal hour spent listening to father.' In the instalment that follows, father himself begins to listen.

NOW THE TRANSFER of estimating and surveying duties from all and sundry to William Head sounded simple, but was rather more difficult in practice.

It was agreed, as an interim measure, that

(1) all new jobs would go through the newly created department, but that technical assistance on the estimating side might be obtained, when necessary, from those who had hitherto estimated for jobbing and the specialist trades;

(2) the Jobbing Supervisor would 'measure up' those jobs where he was called in;

(3) each would clear up their own outstanding final accounts; and

(4) the supervision of William's current jobs would be shared among the other supervisors.

Each of these items tended to throw up its own queries and difficulties. As William somewhat acidly opined, Fred's joinery prices appeared to come 'from the back of his head,' and there were no facts or figures to prove or disprove them. William was also very critical of what little Fred included for 'fixing,' an item until now always hidden. Perhaps that partly explains why whoever took over the supervision of one of William's jobs was critical of the way in which it was being run; it was always these jobs which suffered when labour was short.

A further bone of contention was that the rough notes and signs made and understood by the jobbing supervisor had to be rewritten before they could be understood by the estimating department. The cry went up that the jobbing supervisor could do the estimate quicker than rewriting his notes. As this statement contained a grain of truth he was asked to rewrite them in the form in which the estimate would be sent out, leaving only prices to be filled in and extended.

Construction

These petty arguments and moans did, however, prove one thing: it was obviously not possible to change the organisational structure around bit by bit unless the final re-arrangement had been thought out and agreed.

To recap, the object of the re-organisation was

(1) to reduce the number of people reporting to Albert Head;

(2) to run the organisation on functional lines; and

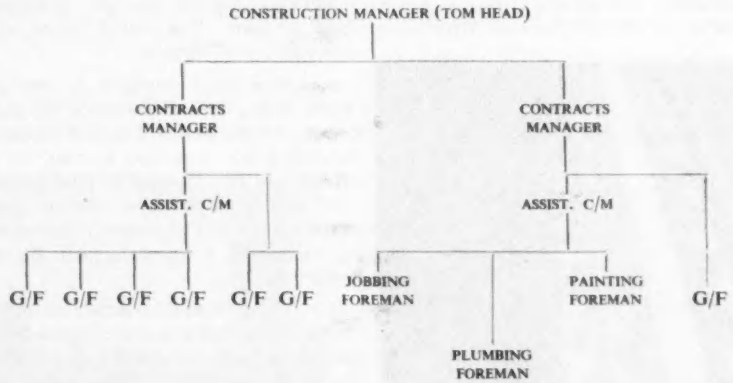
(3) to avoid overlapping and duplication.

It is fairly obvious that the major function of a building firm is to build. Could not one man be responsible for all building work whether new or repair? He could, and Tom, as the eldest son and with a practical training was the most suitable. The title 'Building Manager' or 'Construction Manager' was relatively unimportant.

So the existing assistant contract manager and the painting manager were renamed Contract Managers. The jobbing foreman became an Assistant Contract Manager, reporting to the ex-painting manager. The best general foreman was also up-graded to assistant contract manager.

Here now was one man responsible, and reporting to Albert Head, for all work outside the confines of the head office and yard—one man co-ordinating all the labour, deciding priorities, weighing in the balance the merits and requirements of each job. In addition he is able to give all jobs the benefit of his experience and facilitate the interchange of information between members of his staff.

Expressed graphically, the broad-based triangle (normally a sign of good management) has replaced a series of vertical lines, each dominated by a personality.



Service

Armies cannot win battles or construction managers build unless they are well supported by their ancillary services. Not only must their ammunition or materials be obtained, but they must be delivered in the right amount, where they are wanted, when they are wanted. To do this there must be a staff office at headquarters. And for Albert Head, Limited, who better than Fred Wood? He has been relieved of what was previously his major occupation, and has now the capacity to take on further responsibilities.

The joinery shop is in the yard, which in turn is the hub of the distribution wheel. Delegation of responsibility for plant and transport to the Transport Manager is the first step. Having made the transport manager responsible, he must be given authority. Therefore, plant fitters and mechanics as well as the drivers must be made subordinate and responsible to him. Again one man is responsible for everything connected with that particular function.

Hitherto, with all the senior executives running their own jobs, it was not uncommon for two or three people to ring up a firm of suppliers on the same day to order the same or similar type of materials. It was also not uncommon for the stores to run out of materials in constant use because re-ordering was not the responsibility of anyone in particular. The storekeeper would pass little notes to Albert Head, and Albert attended to them when he had time. As Albert was a busy man, results were far from good.

Possibly worse than the lack of co-operation, was the fact that nobody had time to seek out better prices and delivery dates. Nobody could put down bulk orders, and suppliers' representatives would not bother to seek out six or eight people within a firm, each of whom spent a share of the firm's turnover.

To dispense with this duplication and lack of co-operation the appointment of a Buyer was essential, and the new post had to be created. Here was a man who would be co-ordinating the requirements of materials for the firm; a man who could place orders that merited special discounts; a man with £100,000 a year to spend and well worth any representative's

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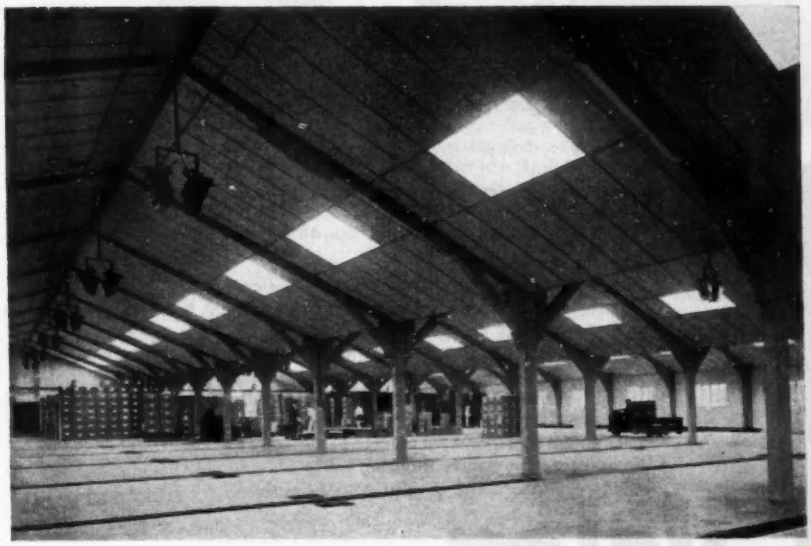

Photo: Pioneer Plastic Containers Ltd., Bedfont. Architects Dodge & Reid, Brentford Middx.

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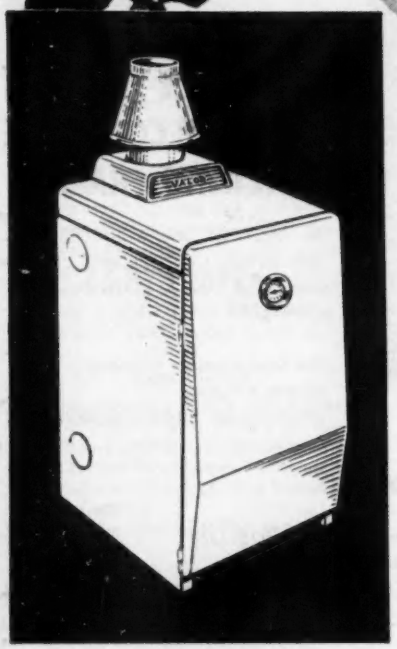
Just one of the reasons why more people are installing Valor oil-fired boilers



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- Small and unobtrusive
- Easy to install
- Highest recovery rate of any oil-fired boiler
- Burner gives extremely economical running on kerosine (paraffin)—does not require any electrical supply
- Oil Control Valve incorporates an anti-flooding safety device
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- Dial gauge thermometer on front
- Guaranteed for twelve months

Valor OIL-FIRED BOILERS

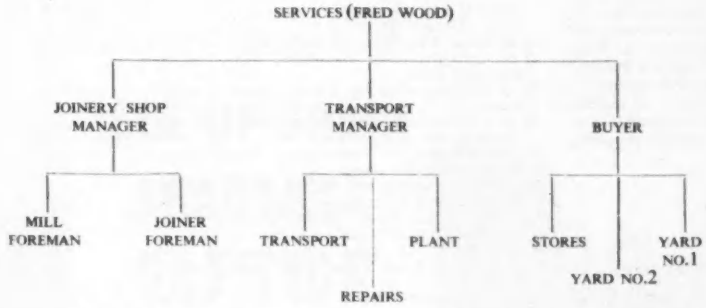
MODEL SA 35 has an output of 30,000 B.T.U.'s constant loading suitable for up to 6 radiators (150 sq. ft. surface) **and 30 gallons of hot water.** Consumption 0.1 to 2 pints per hour.

MODEL SA 25 has an output of 15,000 B.T.U.'s constant loading suitable for 2 to 3 radiators (50 sq. ft. surface) **and 30 gallons of hot water.** Consumption 0.1 to 1 pint per hour.

For further details please contact:
The Valor Company Ltd., Bromford, Erdington, Birmingham 24. Erdington 6151

time in seeking out. If you lost his business you lost the whole of the firm's business, not just one-sixth or one-eighth, so you gave more attention to both prices and deliveries.

Under Fred Wood we therefore get :

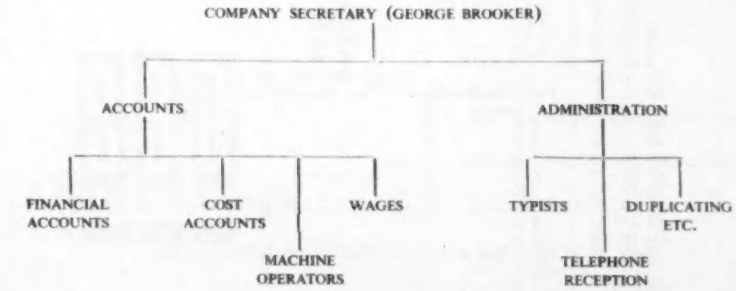


Administration

The only really serious fault with the existing set-up was the split between the financial and cost-accounting sections. This resulted partly from personalities; George Brooker still believed that the system he found there in the late 20s and tidied up during the 30s was perfect. The so-called 'cost clerk' was an intelligent man, 27, anxious to get on. He had passed the intermediate examination of the ICWA and would sit for his finals in another year. [After that, in his own mind, he would find a new job where accountancy was taken seriously, and he would have a chance to practise some of the up-to-date theories he had been taught.] From the accountancy viewpoint he was well away ahead of Brooker.

Because everybody connected with running a job had been immersed in detail and knew no other way, he was kept at full stretch entering in his cost ledgers every bit of material issued, every man's wages each week on the job, and every other small detail. The fact that there was no reconciliation between his ledgers and the financial books worried him, but he was not in a position to do anything about it.

Making him No. 2 in the administrative set-up, and responsible for all accounting functions, settled the major worries of this aspect of the firm. George Brooker, as company secretary, has reporting to him : (i) the accountant, (ii) senior female clerk/typist. In turn, the accountant has financial accounts, costing, wages and his machine operators.



Theory or Practice ?

So much for theory. Would it work? Albert Head was the one person who had been relieved of nearly all his duties and responsibilities without being given a new set. Consequently he had lots of time to worry. His idea of a dynamic businessman was someone who dashed here and there keeping up to date with a full diary of appointments. His thinking would be done whilst driving between meetings, and materials would be got at the last moment because of his personal influence with suppliers. Although he frequently complained of overwork and of doing estimates at home at night, this was how he had built up a successful firm. It was his life, and, secretly, he liked it.

A clear desk, time to sit down and think. 'What should I think about?' he asked. The reply was pretty obvious, but it was avoided because Albert went off at a tangent. He came across a circular from a pile of correspondence, it was an invitation to a 2-day management appreciation conference. 'This is your sort of thing, what is it all about?' he demanded of Fred, who happened to be in the room. 'Management? Don't I manage? Work study, what's that? Planning—that's a new-fangled idea! Clerical methods? What do I want to learn about those? Communications? Can't I write a decent letter? I got a prize for grammar at school. Management accounting? What's that?'

He put all these questions, and more, to the Advisory Service on the 'phone and after about half-an-hour's explanation Albert thought he would go. True, his decision was not based on the fact that he might learn a great deal, but mainly upon the feeling that not having to rush from job to job, he was bored, and also his sister lived just outside Harrogate and he had not seen her for some years. Although he did not mention it, he appreciated the facts that the conference was Thursday/Friday and some good fishing could be got in the Wharfe on Saturday/Sunday.

He went. He returned. On being asked what he thought about it, his answer was that although it was not a waste of time, they had talked mainly about things the firm did not do. But, he added, they told a marvellous story about Noah, I must tell Fred. Then—as a matter of no consequence—he asked if anyone knew old So-and-So.

'We had a couple of drinks together on Thursday evening and he told me that if they measure up a job for interim payment today, a cost of their own work is produced tomorrow. Is that possible and how big a staff do you want?' The answer that it was possible and did not require any more staff was probably the turning point of his assignment. Albert Head had commenced to think. Commenced to think about his business as a business, rather than a series of jobs.

(to be continued)

British Standards

Adze Eye Claw Hammers

(BS 3197 : 1959)

THIS IS the most recent addition to a growing range of British Standards for hand tools. Materials and manufacturing requirements are laid down, together with a series of tests calculated to prove the safety and efficiency of the tool complete with handle. Notably, 100 per cent hardness and flaw testing is specified, and also a unique and very severe performance test which demands that hammers shall be capable of withdrawing nails head hindmost through a solid pine board 1 in. thick. (Price: 4s. 6d.)

Children's Playground Equipment for Parks

BS 3178 (Pts. 1 and 2A: 1959)

THIS STANDARD deals in great technical detail with the heavier type of equipment suitable for use in public parks and other open spaces. Officially titled BS 3178 : Playground Equipment for Parks, it tackles its subject from three main angles: ensuring the durability of equipment in exposed conditions; achieving adequate safety; and laying down an inspection routine that will ensure proper maintenance. (Price: Part 1, 4s. 6d.; Part 2A, 4s. 0d.)

The publication is in two parts: part 1 presents a series of general requirements relating to such items as steel, iron, bolts, brass, timber, concrete, paints and varnish, linseed oil and wood preservatives. Workmanship and construction are also dealt with. The standard states which parts of an assembly are to bear the mark 'BS 3178'; and there is provision for licensed manufacturers to mark their products with the BSI's monogram, the 'Kite-mark.'

Part 2A deals with special requirements for static equipment (except slides). The specification focuses attention on: horizontal bars, horizontal ladders, 'jungle gyms' and parallel bars.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
⅜ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

		£	s.	d.
6-ton loads and upwards, site	per ton	5	12	0
1 to 6 tons, site	,,	6	4	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	2	6
1 to 6 tons do. site	,,	6	14	6

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

Red, Buff or Khaki Colocrete in 6-ton lots	,,	8	12	0

Other colours according to colour.

In 4-ton lots from 310s. 0d. to 780s. 0d. per ton.

White Portland Cement	,,	13	17	6
Under 1 ton	per cwt.		16	11
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	4	6

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 10s. 0d. to £14 5s. 0d. (1-ton loads and upwards.)

Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	8	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	14	19	6
Second Hard Stocks	,,	13	13	6
Mild Stocks (Kiln Burnt)	,,	9	18	0
Mild Stocks	,,	9	5	0

All loaded free into lorry at the works. The question of haulage is still very dfficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:

Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	2	6
do. do. (London sites)	,,	30	4	0
do. Bullnose (London stations)	,,	30	16	6
do. do. (London sites)	,,	30	18	0
Blue Wire Cuts (London stations)	,,	26	19	0
do. do. (London sites)	,,	27	0	6
Midhurst Lime Bricks (London sites)	,,	10	15	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2⅞ in. Moler Flue Bricks (London sites)	,,	29	0	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	16	16	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	1	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	14	14	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0

Glazed Bricks (London sites), White, Ivory, Brown:

Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

			£	s.	d.
Hollow Clay Partition Blocks (Keyed)					
Minimum lorry loads					
*2½ in.	140 yds.	per yd. sup.		4	5
Building Blocks (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	5
*4 in. (6 cavity)	90 yds.	,,		6	10
6 in. (8¾ in. × 5⅝ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete					
2 in.	100 yds.	per yd. sup.		3	9
2½ in.	85 yds.	,,		4	4
3 in.	75 yds.	,,		5	3
4 in.	55 yds.	,,		6	5
Cranham Terra Cotta					
2 in.		,,		6	9
2½ in.		,,		7	9
3 in. Load bearing quality		,,		8	9
4 in. do. do.		,,		10	9
Moler Partition Blocks					
2 in.	150 yds.	,,		10	6
2½ in.	120 yds.	,,		13	0
3 in.	100 yds.	,,		14	0
4 in.	90 yds.	,,		15	6
Lightweight Concrete Building and Partition blocks of Various Sources of Manufacture					
2 in.	100 yds.	per yd. sup.		5	4
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		13	5
Thermalite-Ytong Partition Blocks					
2½ in.	144 yds.	,,		7	0
Thermalite-Ytong Load-Bearing Insulating Blocks					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8

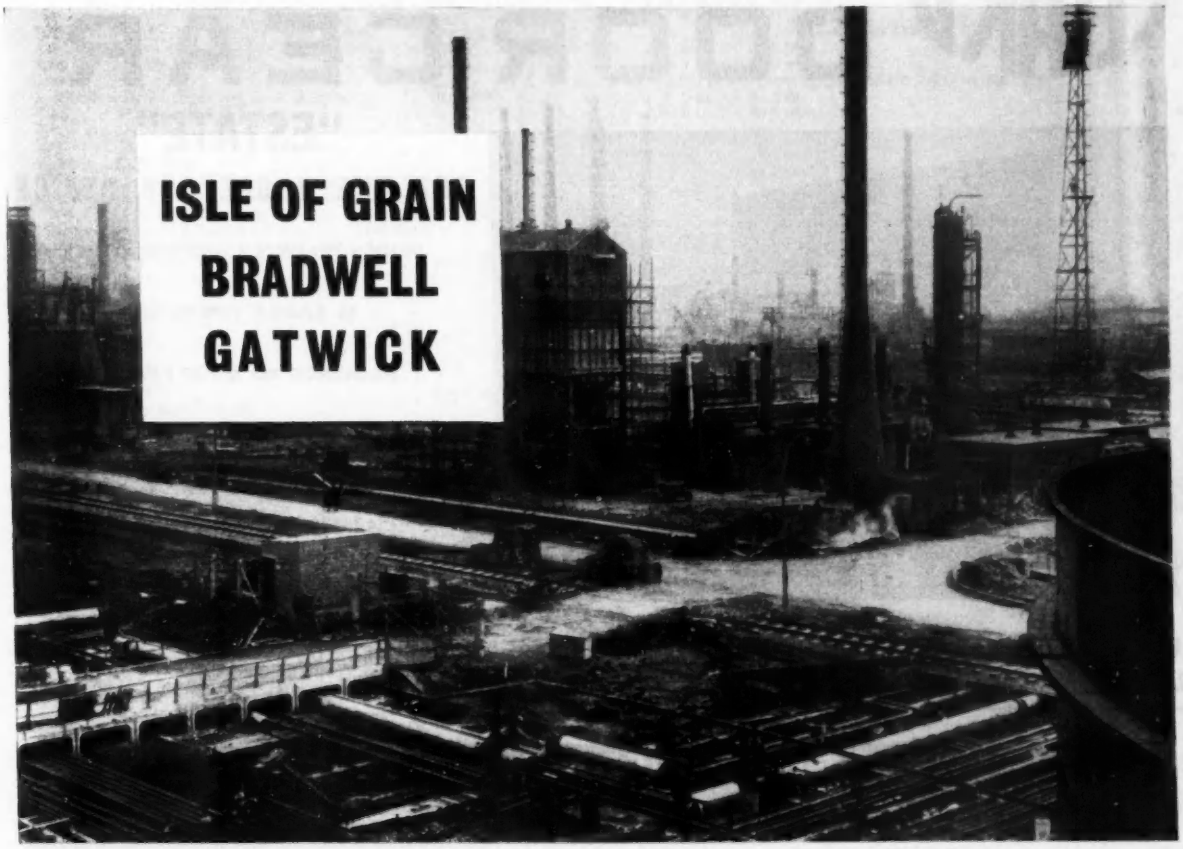
Floor Blocks and Filler Tiles

Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:

3 in.	per 1,000	34	1	0
4 in.	,,	36	10	0
5 in.	,,	43	15	0
6 in.	,,	49	19	0
7 in.	,,	61	8	0
8 in.	,,	71	19	0
9 in.	,,	79	3	0
10 in.	,,	87	15	0

Filler Tiles in multiples of 10 tiles per 1,000 multiples:

12 in. × 3 in. × ⅝ in.	,,	42	15	0
12 in. × 4 in. × ¾ in.	,,	73	15	0
10 in. × 5 in. × ⅝ in.	,,	73	15	0



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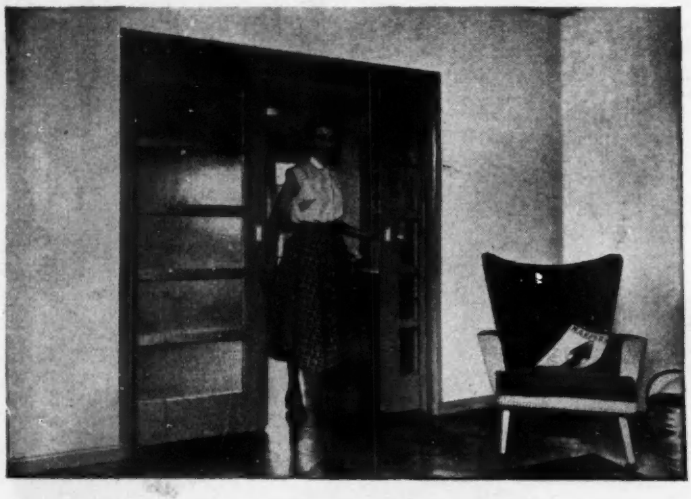

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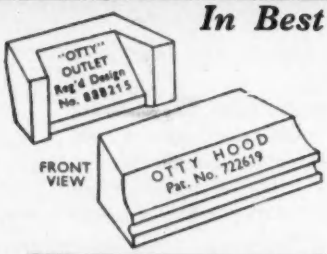
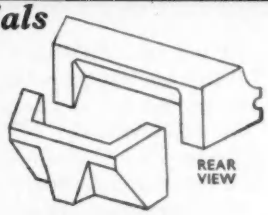
ELLARD SLIDING DOOR GEARS LTD. (Desk 9), Works Road, Letchworth, Herts. Tel: 613/4
LONDON OFFICE: 5 NEW BRIDGE STREET, LUDGATE CIRCUS, E.C.4 Tel: CITy 4815

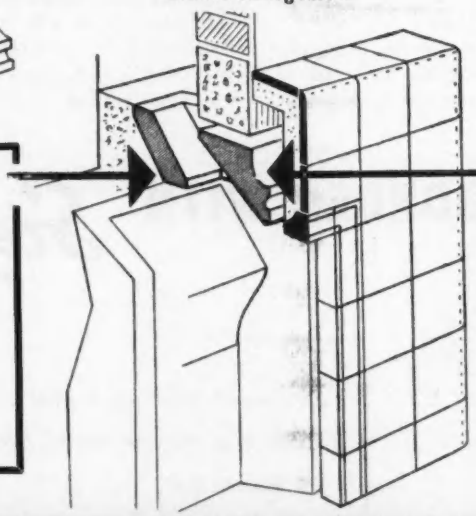
THE "OTTY" FIREBACK HOOD (PAT Nº 722619) AND OUTLET (REGD DESIGN Nº 888215)

In Best Quality FIREBRICK Materials



Section of a Fireplace showing the **"OTTY"** Fireback Hood and **"OTTY"** Outlet *assembled together.*





Predetermines entrance to flue.
Restricts throat to correct size.
Correctly splayed throat aperture
Smoke passes unimpeded into flue.
Cuts down excess air change.
Retains heat in room.
Impedes down draughts.

Seals off fireback to lintel.
Resists heat to back of surround.
Shelf remains cool.
Eliminates smoke pocket.
Avoids loss of heat up flue.
Greater efficiency.
Economy in fuel.

Write for fully illustrated list.

Stocked by leading merchants everywhere.

BOWENS (REFRACTORIES) LTD. Clattershall Fireclay & Brick Works · Stourbridge Telephone: BRIERLEY HILL 78101 & 78102

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 50 pieces Under 2 tons	Under 50 pieces Under 2 tons
Best Quality ...	−18⅔%	List price	+5%
BSS Best Quality...	+10% −18⅔%	+10% list price	+10% +5%
Tested Quality ...	+37½% −18⅔%	+37½% list price	+37½% +5%
BSS Tested Quality	+47½% −18⅔%	+47½% list price	+47½% +5%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		9	7
St. Aldhelm Box Ground	,,		10	10
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	2
Beer Stone. Delivered London area	,,		9	0
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	2
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.	£	s.	d.
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

Softwood			Ex Wharf	per standard	£115 to £140	
Joinery quality			do.	,,	£94 — £98	
Carcassing quality			do.	,,	£108	0 0
1 in. Tongued and Grooved Flooring			do.	,,	£	s. d.
Hardwood						
Mahogany—	African S.E.		do.	per ft. cube	1	10 0
do.	Honduras S.E.		do.	,,	3	5 0
Oak	European S.E.		do.	,,	2	10 0
do.	Japanese S.E.		do.	,,	3	0 0
do.	English Logs sawn ...		do.	,,	2	0 0
Teak	8 in. average S.E. ...		do.	,,	3	17 6
Walnut	African Logs sawn ...		do.	,,	1	2 6

DOORS (in Lots 1–11)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
⅛ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
¼ in. Hardboard do.	,,	2	0	0
5/16 in. do. do.	,,	2	17	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	48	15	6
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1½ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. }	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. }	,,		10	0
Steel angles average price	,,	49	15	6
Steel tees average price	,,	50	15	6
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	65	15	0
Compound girders	,,	70	0	0
Stanchions	,,	75	15	0
Compound stanchions	,,	80	0	0
In Roof Work—Trusses and Purlins	,,	89	17	6
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,		6	12 6
⅜ in. do.	,,		4	12 6
½ in. do.	,,		3	2 6
⅝ in. do.	,,	1	10	0
¾ in. and ⅞ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39%	−40⅔%	Light −26½%	Malleable List
Medium	−35%	−36⅔%	Heavy −22½%	−23% +40%
Heavy	−27½%	−29%		
Black—				
Light	−50%	−51⅔%	Light −32½%	Malleable List
Medium	−46%	−47⅔%	Heavy −28½%	−23%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 22½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt.	qt.	lb.	Per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/–
6 in.	2	0	1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj.	,,	3/7	4/8	5/2	7/3
do. 6 in do.	,,	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/–	5/10
Nozzles	,,	3/6	4/–	4/9	5/–
Union Clips	,,	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	,,	1/–	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/–	3/3	3/7	5/2
Union Clips	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.	2 11½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,	2 10½
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,	2 10½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	,,	2 10
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	,,	3 1
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 0
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	,,	1 18 8
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	,,	1 12 1
Extruded section BS 1476 E1C simple moulding	per lb.	2 9½
Extruded section BS 1476 E1C 1 in. diam. round	,,	2 7
Extruded section BS 1476 HE10WP simple angle	,,	3 0½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,	2 11½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG	,,	4 5½
Tubing BS 1471 HT10WP 1½ in. O/D × 20 SWG	,,	5 10

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/–	128/–	—	—	—	—
Toilet bib cocks for iron	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1½ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	64/10	81/–	129/6	221/6		
Lead S. trap do. do.	78/6	97/3	159/6	286/3		

Solder :			s.	d.
Plumbers'	1 cwt. lots	320/–	14 lb. lots per lb.	3	7
Tinmen's	,, ,,	404/–	,, ,, ,,	4	5
Blow pipe	,, ,,	407/–	,, ,, ,,	4	6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 30d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
½ in. × 19 gauge	15½	Total per lb.	45½	Approx. per ft.	12½
¾ in. × 19 ,,	13¾	,, ,,	43¾	,, ,,	17
1 in. × 18 ,,	12½	,, ,,	42½	,, ,,	26½
1¼ in. × 18 ,,	11⅝	,, ,,	41⅝	,, ,,	31⅝
1½ in. × 18 ,,	11⅝	,, ,,	41⅝	,, ,,	37⅝
2 in. × 17 ,,	13¼	,, ,,	43¼	,, ,,	60½

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	,, 1d. ,,
2 cwts. to 1 cwt.	,, 2d. ,,

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	293 0 0

Zinc

	£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards per cwt.	7 15 3
,, ,, 12 gauge (23 SWG), ,, ,, ,, ,,	7 14 9
,, ,, 14 gauge (21 SWG), ,, ,, ,, ,,	7 13 6

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras per lb.	2 0⅞

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	112 15 0
,, Water Pipe, in coils	,,	115 0 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. dia.	,,	116 10 0
,, ,, ,, over 4 in. dia.	,,	118 10 0
,, Gas or Untinned Compo pipe	,,	116 10 0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:			
3 cwt. and under 5 cwt.	per cwt.	4	0
1 cwt. do. 3 cwt.	,,	6	0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	,,	8 14 0
Sirapite Coarse BSS 1191 Class C do.	,,	8 15 9
do. Fine do. do. do.	,,	9 3 3
do. Browning BSS 1191 Class B do.	,,	8 15 9
do. Board Finish do. do.	,,	8 15 9
Blue Lias Lime, in 6-ton loads	,,	6 14 6
Hydrated Lime (Grey), in 6-ton loads	,,	5 10 0
do. (White) do.	,,	6 0 0
Lump Lime (Grey) do.	,,	5 7 0
do. (White) do.	,,	5 14 6
White Keen's or Parian Cement, in 1-ton loads	,,	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads	,,	11 14 0
Granite Chips, in 6-ton loads	,,	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	,,	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2 9
1,200 yds.	,,	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,	2 6½
1,200 yds.	,,	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	3 0
1,200 yds.	,,	3 0

Government Conversion Scheme

There's no bath like the

ALLIED

Vogue

Better baths - bigger business!

Baths for all – that's what the Government grant means. And your customers can have an ALLIED Vogue, on terms that include bath, installation costs and accessories, *with up to 5 years to pay.* Wonderful terms for a wonderful bath! And what wonderful bath selling this means for you! Make sure you know all about ALLIED'S plan to help you sell the Vogue – ask ALLIED for full details and for enough copies of the ALLIED Standard Grant leaflet to meet all demands.

ALLIED'S "5-years-to-pay plan" helps you sell it!

Made by ALLIED, the largest bath manufacturers in Europe, the Vogue is the best value-for-money bath today, because . . .

- *Vogue's flat-bottom (pioneered by* ALLIED*) and low "set" add to its looks, comfort and safety in use.*
- *Vogue's cast-iron construction ensures greater strength, permanence and durability.*
- *Vogue, superb in sparkling white, is also obtainable in eight gay pastel shades.*
- *Vogue – at £20 – is the finest bath buy of all.*

Vogue is such an outstanding bath that it has had many imitators. But though you can copy design, you can't copy quality. And Vogue remains supreme in its class.
Vogue is the bath that fits into all types of homes; that will (on account of its very reasonable price) be in even greater demand now that the Government Conversion scheme is in existence. Vogue is a ready-seller now. Soon everyone will want a Vogue! In 5′, 5′ 6″ and 6′ sizes.

Stock ALLIED Vogue the bath that sells on sight!

Allied Ironfounders Limited, Bath Division, Greenford, Middlesex.

REGD. TRADE MARK

Braby

PARTITIONS

The east supplies the basic idea, but it takes western ingenuity to make a practical job of partitioning for industrial use. Braby construct their Bar-Form metal partitions of extruded aluminum alloy sections, with double dado panels (insulated) for offices, factories, hospitals and other buildings — excluding traditional Japanese houses.

FREDERICK Braby & COMPANY LIMITED

LONDON: *352-364 Euston Road, London, N.W.1*
Telephone: EUSton 3456

GLASGOW: *Eclipse Works, Petershill Road, Glasgow, N.*
Telephone: SPRingburn 5151

CRAYFORD · LIVERPOOL · BRISTOL · BELFAST · PLYMOUTH

AP151

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	5	0
Gloss Paint	per gal.	2	12	0
Super Snowcem cement paint (in 1 cwt. drums)	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	9	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4 3/8
do. do. (40 gal.) do.	,,		4	8 3/8
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate	,,	1	2½
7/16 in. Rolled and Rough Cast	,,	1	5
½ in. do. do.	,,	1	5¾

		s.	d.
¼ in. Figured Rolled and Cathedral, Standard patterns— White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 5¾ × 5¾ × 3⅞ in.	each	3	3
P.B.3 7¾ × 7¾ × 3⅞ in.	,,	5	0
P.B.32 7¾ × 7¾ × 3⅞ in.	,,	5	0
Radiused Corner Blocks to match up with—			
P.B.2	,,	6	0
P.B.3	,,	7	6
P.B.32	,,	7	6
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.
The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,,	2,000		8¾
26 oz. ,, ,,	2,000		11
32 oz. ,, ,,	2,000	1	2½
¼ in. Rolled Plate	1,000		10¾
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10¾
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
7/16 in. Rolled Plate or Rough Cast	2,000	1	1
½ in. do. do.	2,000	1	1¾
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM OCTOBER 5, 1959. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/9	4/8½
Labourers	4/2½	4/2

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of ‡	A
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Grays Thurrock UD Area	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull UD	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC Area	A
North of to Billericay	A
Tilbury	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 4s. 10½d. ; Labourers, 4s. 4d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 4s. 10d. ; Labourers, 4s. 3½d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s. 10½d. per hour. Women engaged on work other than craft processes, 3s. 6½d. per hour.

For Building Trade Wages in Scotland, see page 249

Introducing the

Ascot De Luxe G512

the new water heater giving complete control

The New Ascot De Luxe type G512 represents the latest developments in water heater design and performance. Developed by Ascot for use as an instantaneous multipoint and single-point water heater, this Ascot De Luxe with its *complete* controls for gas and water is sure to be popular with the modern housewife. Here are some of its features:

Temperature Selector
A temperature selector controlling a temperature rise between 45°-100°F is incorporated, allowing the housewife to choose water at whatever heat she wants.

Gas and Water Controls
The Ascot De Luxe is fitted with a constant volume gas governor and a water governor. External controls include hot and cold taps and a rotary gas control. Gas and water cocks are an integral part of the heater lining.

Ease of Fixing and Maintenance
The De Luxe ensures easy fixing and maintenance. The outer case and top and bottom pans are quickly detachable, and all working parts are readily accessible. The stainless steel Ascot 'flat flame' burner needs little attention.

Versatility
The De Luxe is designed to operate as either a single point heater with a 9" spout, or as a small multipoint heater.

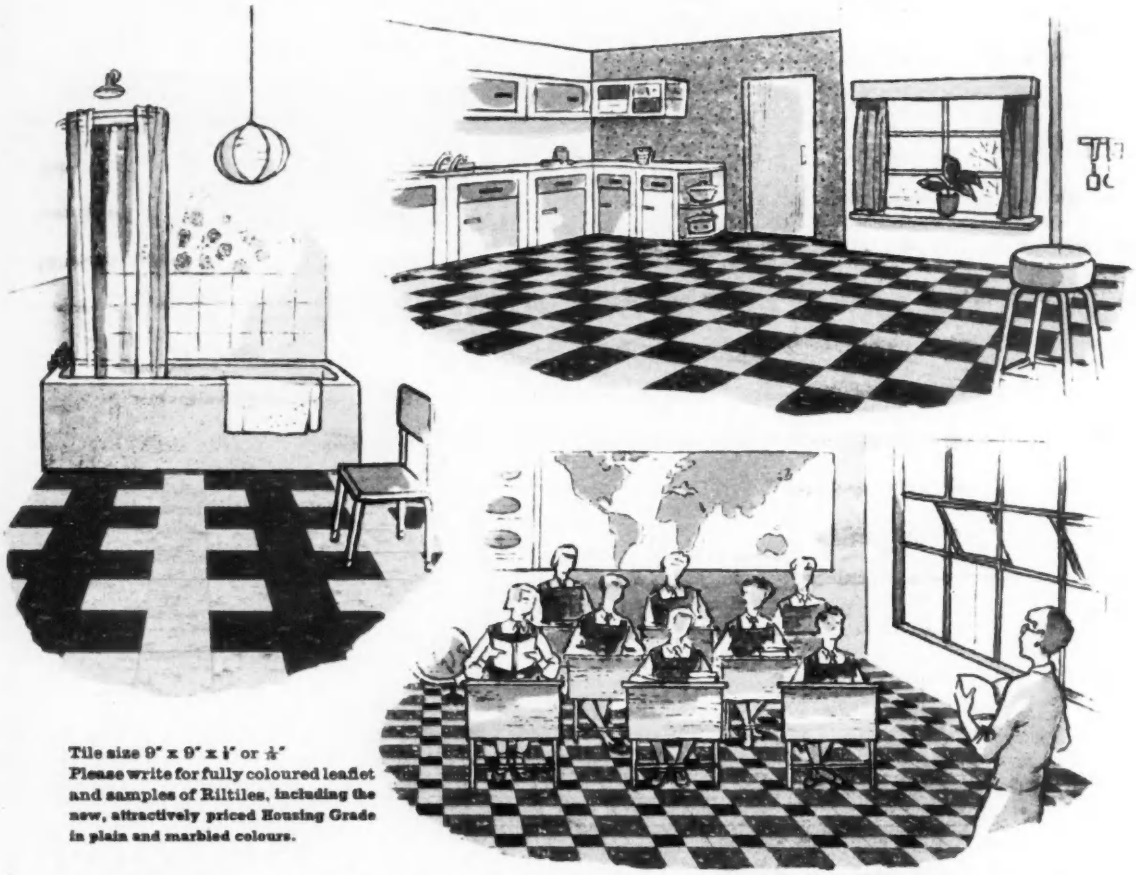
Performance
The De Luxe is 23¼" high, 10¼" wide and 8 5/16" deep and gives 30,000 B.t.u./hr. thermal output from an input of 40,000 B.t.u./hr. producing 0.5 g.p.m. raised 100°F, 0.625 g.p.m. raised 80°F, and pro rata. Pilot consumption is 250 B.t.u./hr.

REGD. TRADE MARK
ASCOT

For full details of the Ascot De Luxe type G512 write to
ASCOT GAS WATER HEATERS LIMITED, 255 NORTH CIRCULAR ROAD, NEASDEN, N.W.10

A Radiation Company

Modern decor starts at floor level



Tile size 9" x 9" x 1/8" or 1/16"
Please write for fully coloured leaflet and samples of Riltiles, including the new, attractively priced Housing Grade in plain and marbled colours.

Riltile Thermoplastic Floor Tiles, now in new augmented colour range, are a *lasting* basis for modern decor. Riltile's exceptionally hardwearing properties fully comply with the rigid specification of BSS 2592.
Resistant to oils, grease and dilute acids, and patterned right through. Riltile is a sound investment for both industrial and domestic flooring.
Riltile is easy and inexpensive to lay, simple to keep clean — an attractive proposition from every angle.

Other famous
BRITISH MOULDEX floorings:

Britannia Vinyl Flooring
Durever Motor Car Showroom Vinyl Flooring
Durever Anti-Static Vinyl Flooring in 4 colours
Mouldex Rubber Floor Tiles
Mouldex Rubber Stair Nosings

A Member of the BTR *Group of Companies*

RILTILE

THERMOPLASTIC FLOOR TILES

BRITISH MOULDEX LIMITED

RILEX WORKS, WELLINGBOROUGH, NORTHANTS. *Telephone: Wellingborough 4033.*

London Office and Contracts Division: Mouldex House, 27-29 Fitzroy Street, London, W.1. Telephone: LANgham 4211
Manchester Office and Contracts Division: 22 Upper Camp Street, Broughton, Salford 7, Lancs. Telephone: Broughton 1549.
Scottish Office: 4 Mill Street, Dunfermline, Scotland. Telephone: Dunfermline 2754.

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 115 of this issue. The form can be used for more than one inquiry.

1. Insulation

A PLASTIC COATING SYSTEM has been designed to protect insulation materials on pipelines, storage tanks and other types of process equipment where vapour sealing and resistance to solvents or corrosive atmosphere is required. Continuous pipelines and regularly shaped vessels may be preserved by using 'Texolag' base, which consists of fabric impregnated with a plastic composition, wrapped round the insulation surface over a coat of sealing compound and then sealed with a special lacquer. An alternative method for irregular shaped vessels, flanges and valves is to use a sprayable solution to produce a continuous plastic film. The system may be used on any equipment where the temperature of the external surface of the insulation does not exceed 160°F or fall below minus 30°F. It is very resistant to spread of flame.

R. A. Brand & Co. Ltd., Works-rd., Letchworth, Herts.

2. Paints

A change in the manufacturing process of a PLASTIC EMULSION PAINT has helped to overcome certain detracting factors such as sensitivity to moisture and condensation and uncertain adhesion over glossy surfaces which have, until now, been associated with these paints. This is quite a useful advance for it means that the paint can be used in kitchens and bathrooms, over glossy surfaces and for exterior decorating. The development has been made possible by the employment of a vinyl copolymer resin. In essence, plastic emulsions are solid particles of plastic resins dispersed in water. The problem is to get the particles to fuse so as to form a continuous film, and this is normally done by adding a plasticiser to the emulsion after manufacture. The weakness here is that the plasticiser may migrate from the film into the air leaving the film brittle. In the new technique the hard resin is chemically reacted with other materials *during* manfacture to give a type of emulsion known as a copolymer. In such an emulsion there is nothing to migrate and nothing to change and once the water has left the film the copolymer is stable.

John Hall & Sons (Bristol and London), Ltd., Romily House, Petherton-rd., Hengrove, Bristol, 4.

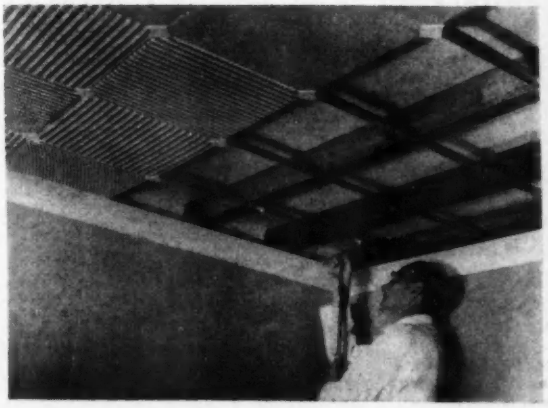
An ENAMEL PAINT has been developed which, it is claimed, can be 'battered, bent and buckled' without in any way harming the film of paint. This is due to an ingredient called 'Polythol'—an exclusive blend of gums which include those used in indestructible plastics. On outside surfaces it is especially resistant to sea air and atmospheric attack.

E. Parsons & Sons, Ltd., Bristol.

3. Polythene Sheeting

AS POLYTHENE FILM becomes a growing medium for curing concrete, so the information we receive increases. It retains 95 per cent of the moisture in the concrete and eliminates the need for constant watering. In general, the compressible strength of concrete so cured is 10 per cent greater than air-cured concrete while the wear resistance is 75 per cent greater. The film can also be used for curing granolithic floor where it has been found to reduce the risk of curling: the slower rate of curing and retention of water in the grano finish prevents excessive and too rapid shrinkage. The film, which is recommended for many other uses including temporary glazing, dust proofing and insulating large buildings, will not deteriorate in store, neither will it rot or decay.

The Marley Group, Sevenoaks, Kent.



4. Wall Tiles

PLASTIC - FACED QUILTED TILES as a ceiling or wall decoration can add colour to a room. Made of plasterboard, 16 in. square, and insulated with aluminium foil at the back, they are fitted by screwing metal channels on to the ceiling or wall, sliding in the tiles and tightening the motif.

The British Plaster Board Ltd., 82 Piccadilly, W1.

5. Transport

New heavy-duty DUMPER TRUCKS are being designed primarily for site work, but they are also suitable for operation on the highway. The gross vehicle weight is 28,000 lb. and the outstanding features include an 'L'-type reinforced frame with

five cross members and an overall depth of 11¼ in. The steering is power-assisted and all-round visibility in the driver's cab is good. The dumpers at present in operation are fitted with a link type of tip gear and a 6 cu. yd. body, but other makes can easily be accommodated. A big advantage is their ability to give an absolutely vertical tip. Experience so far on one site has shown that two dumpers are handling 600 cu. yd. of gravel in a ten-hour working day compared to the 400 cu. yd. capacity of the three former tippers used.

Dodge Brothers (Britain) Ltd., Kew, Surrey.

Technical Publications

A booklet entitled 'Keeping the Congregation Warm,' issued by The General Electric Co., Ltd., of Magnet House, Kingsway, W.C.2, makes out a case for the heating of churches by electricity. One advantage where buildings are only used, in the main, at off-peak hours is that special reduced rates can be obtained. As to methods of heating, the booklet recommends the use of fan heaters or tubular heaters containing 'black heat' electric elements for warming the building, whilst for direct heat, Twin-Zone radiant heaters are suggested. These can be suspended from pillars, walls or beams and switch-controlled either singly or in groups so that, if need be, only certain areas are covered—an obvious advantage for special services or choir practices.

'Asbestos and Asbestos-Cement Products' is the title of a new, 28 page, illustrated, technical information booklet from Turners Asbestos Cement Co. Ltd., of Trafford Park, Manchester, 17. Produced for general distribution, it deals with asbestos as a raw material and the extensive range of asbestos cement products. The same firm have also issued a guide to painting asbestos-cement.

News in Brief

Restrictive Trade Practices

THE REGISTRAR of Restrictive Trading Agreements has stated that by the end of 1959 over one-third of the agreements in the register (770 out of 2,240) had come to an end entirely or as regards their restrictive provisions either because their restrictions had been declared by the Restrictive Practices Court to be contrary to the public interest or because the agreements, or the restrictions in them, had been or were being abandoned by the parties. The corresponding figure for January, 1959, was 150.

Building Society Rates

The Building Societies Association has stated that building society rates of interest are not governed by the Bank rate and therefore the increase announced on January 21 is not likely to have any effect upon the rates which they pay and charge, unless the increase is eventually followed by a rise in the general level of interest rates.

A Diary from Johannesburg

An attractive desk diary has been issued by James Thompson Limited, the Johannesburg builders. As well as listing contracts completed by the company during 1959, it gives some of the more important projects in hand at the present time. The volume is handsomely bound and there is ample space for recording daily memoranda.

Hull May Adopt Radburn Plan

Hull Corporation Housing Committee have provisionally approved the layout of Britain's first 'road safety town'—the North Sutton Estate. The Committee are to visit pilot estates in other cities before they decide whether houses shall follow the traditional patterns or conform to the Radburn plan.

BoT Import Licensing Branch

The functions of the Import Licensing Branch have been transferred to the Tariff and Import Policy Division of the Board of Trade and the offices in Marsham-street, London, are now closed. All applications and inquiries relating to import licensing should be addressed to the Board of Trade, Tariff and Import Policy Division, Horse Guards-avenue, London, SW1, tel.: Trafalgar 8855.

Electrical Engineers

The summer meeting of the Institution of Electrical Engineers is to be held in Glasgow from June 27 to July 1. The headquarters will be at the Central Hotel where an information office will be set up for the duration of the meeting. The programme will commence with a civic reception by the Lord Provost and Magistrates of the City. The remaining period will be occupied with a variety of visits and excursions, a visit to a theatre and a dinner-dance. Further details may be obtained from the Secretary at Savoy-place, London, WC2.

The Factories' Act

The Working Relations Sub-Committee of the Central London Productivity Association are arranging a meeting on 'The Factories' Act and the Work of the Factory Inspectorate' at 21 Tothill-street, SW1, on Thursday, February 25, from 2.30 to 4.45 p.m. The speaker will be Mr. A. W. Grimsey, HM District Inspector of Factories for the Central London District. Applications for tickets, members 2s. 6d. and non-members 5s., from Mr. B. E. B. Turner, c/o Shell-Mex and BP Ltd., Kingsway, WC2.

Exhibition of Building Equipment

'Expomat 60,' the 2nd international exhibition of public works and building equipment will be held from May 19-29 at the National Centre of Industries and Techniques, Le Bourget Airport. The variety of modern equipment to be shown at the exhibition makes it a leading information centre where the latest technical and manufacturing improvements and new industrial inventions are presented. The exhibition is open from 9.30-6.30 p.m. Further information from the Commissioner General, 1 avenue Niel-Paris (17e).

Building Costs Research

A Building Costs Research Bureau has been established at 142 Bannerdale-road, Sheffield, 7, under the direction of Mr. N. B. Harries, AIQS, LIOB. The objects are (a) To study the influence of shape and height on building costs and make comparison of alternative construction techniques; and (b) to study and analyse building site operations in an attempt (i) to reduce production costs and (ii) to provide the link between designer and builder.

The Services of the Bureau are free and invitations to carry out studies, particularly those set out under (a), will be welcomed.

Trade News

Floorings at LEB Building

THE MARBLE FLOORS at the front entrance and the blue-grey and green slate floors elsewhere of the London Electricity Board building in Bethnal Green (illustrated in January 15 issue) were supplied and laid by Messrs. J. Joslin & Co., of 287 High-road, E. Finchley, N2.

New Showrooms

ALLIED IRONFOUNDERS LTD., have opened new showrooms at their head office in Brook-street, London, W1. Covering two floors they provide attractive surroundings for a complete range of the company's products to enable architects, members of the general public and builders' merchants to see and select fittings from specially designed bathroom, kitchen and living-room settings. The showrooms were designed by Mr. Arthur C. Braven, ARIBA.

Specify—

WALLEY'S

CLAY ROOFING TILES

AND

FACING BRICKS

"WALLEY-SILVERDALE"

The Hallmark of Quality
Products with the Highest
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Lancs. Representative: W. REDMAN, 11, Deneway, High Lane Stockport, Cheshire. Tel.: Disley 2034

Personal Column

MR. CHARLES N. FREESTON has been appointed group projects engineer for the Frederick Braby group of companies. MR. J. F. NASH has been appointed chief engineer of Auto Diesels Ltd.

BRIGADIER H. P. CROSLAND, CB, CBE, MC, TD, DL, chairman and managing director of Metal Traders Ltd. has been elected chairman of the Zinc Development Association for 1960. The former chairman, MR. R. T. DE POIX, OBE, will continue as a member of the Council of the Association.

Plans for the merging of Reynolds TI Aluminium Ltd. with The British Aluminium Co. Ltd., are well advanced; the following changes of appointment are announced to take effect from February 1: MR. GERALD LACEY: commercial director, The British Aluminium Co. Ltd.: to be executive director (forward planning) with special responsibility for studying and co-ordinating long-term planning for the development of production, fabrication and research interests in the UK and overseas. MR. G. A. ANDERSON: director and general sales manager, The British Aluminium Co. Ltd.: to be director of products and development with responsibility for the products, development and technical service organisations. MR. BASIL JAMES: chief executive (sales), Reynolds TI Aluminium Ltd.: to be director of sales with responsibility for the sales, publicity and marketing organisations. MR. J. SALTER: director and general production manager, The British Aluminium Co. Ltd.: to be director of engineering with responsibility for civil, mechanical and electrical engineering and building work at UK and overseas establishments. MR. PAUL R. MCGEHEE: chief executive (production) Reynolds TI Aluminium Ltd.: to be director of production (manufactured products) with responsibility for operations at the company's mills and associated establishments. MR. W. B. C. PERRYCOSTE: director and general production manager, The British Aluminium Co Ltd.: to be director of production (primary products) with responsibility for mining, alumina production and aluminium smelting operations at UK and overseas establishments.

Company News

F. HILLS AND SONS LTD., have declared an interim dividend of 5 per cent (less tax) on the ordinary shares of the company for the year ending March 31, 1960.

The directors of THE UNIVERSAL ASBESTOS MANUFACTURING CO. LTD. have recommended a final ordinary dividend of 1s. 1½d. per share (less tax) for the twelve months ended September 28, 1959. With the interim ordinary dividend of 4½d. per share already paid, this brings the total for the year to 1s. 6d. per share (less tax), compared with 1s. last year. Consolidated profit for the UAM Group increased to £533,265 (from £335,237), tax taking £219,465 (£183,304).

I'm your automatic front door receptionist

SAYS STERDY PORTER

"I don't want to brag but you won't find my equal anywhere. In flats, Offices and coverted houses I can deal diplomatically with front door callers 24 hours a day. At the push of a button I put each one through to the appropriate occupant's telephone, admit them only when so desired and relock the door as they close it. That means no tiring journeys up and down stairs for residents, no 'gate crashers' and no need for a Hall Porter. Small wonder I'm so popular with Architects and Builders everywhere."

"I'm available for outright purchase or on excellent rental terms—so write or phone today for full details."

EST. STERDY 1920 TRADE MARK

STERDY TELEPHONES LIMITED

(*Incorporating W. C. Davey & Co.*), Queens House, 180-182, Tottenham Court Road, London, W.1. Telephone: MUSeum 4414, 4415 and 6388

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NEW MARK V Victor ELECTRIC HAMMER DRILL

WILL SAVE YOU £ £ £ £ £ £'s
HAS NO EQUAL FOR DRILLING IN BRICK, STONE OR CONCRETE

VASTLY IMPROVED PERFORMANCE

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ROTARY AND PERCUSSIVE ACTION

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A CONVERSION SET IS AVAILABLE WHICH WILL CONVERT YOUR PRESENT VICTOR INTO THIS NEW OUTSTANDINGLY SUPERIOR MACHINE.

HIRING SCHEME AND H.P. TERMS AVAILABLE

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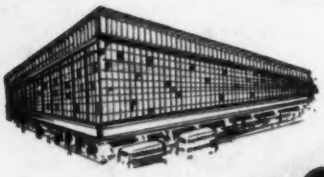
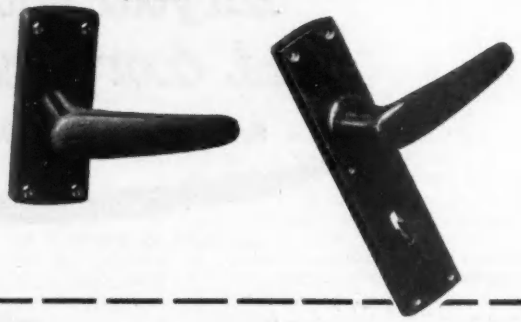
LONDON POLLARDS 0077 DONCASTER 2515 STOCKPORT 5295 WALLSEND 68331 EDINBURGH 53987 *and also at Lichfield 2052 and Newport 62094*



DRUID 700 *with MICRO-TITE Spindle Serrated pins engaging in multi-toothed slots in the spindle ensure perfect and permanent fit. Also available with lever sets.*

PRIORY 1160 & ALBANY 1151. *Two examples of Everite lever furniture.*



How wise you are to choose

Everite

the reliable door furniture

The Everite range of plastics hardware is the largest in the country—designs for every purpose in seven standard colours or special shades to order.

Everite hardware is obtainable from your usual supplier but we shall be pleased to discuss individual requirements personally.

A 64 page catalogue gives full details—send now for your copy—it will be mailed by return.

Write to Plastics Division.

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EVERED AND COMPANY LIMITED, SURREY WORKS, SMETHWICK 40, STAFFS. Established 1809.

IT'S NEW – EFFICIENT and - INTERNATIONAL

INTERNATIONAL HARVESTER

B-41-1
MOBILE CRANE

(3½ to 5 ton capacity)
Hydraulic operated jib
60° slewing movement

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OVERSEAS BUILDING

AUSTRALIA (Queensland).—A new town, to be known as Paradise City, is to be built on Australia's Gold Coast in Queensland. It will be built on 400 acres of reclaimed swamp at a cost of more than £A5m. The construction will be supervised by a Canadian civil engineer, Mr. Peter Farrell, who reached Sydney on January 20 from Vancouver. He said Paradise City would be designed as a sister city to the existing holiday resort, Surfers' Paradise, to which it would be linked by five bridges.

CANADA.—Consolidated Mining and Smelting Company has announced its decision to construct an alkali-chlorine plant, at Trail, BC, at a cost of $2.6m. An immediate start will be made. . . . Construction of substructure and deck of a six-lane, 185-ft. overpass, on the Trans-Canada Highway, Manitoba, and the substructure for an 800-ft. bridge, over the Red River at St. Agathe, Manitoba, are to be started this winter. . . . A $2.5m. grain terminal is to be constructed at Port Arthur, Ontario. . . . A $15m. causeway is to be constructed across the Rainy River, near Fort Francis, Ontario. . . . $9m. is to be spent on additional construction to the Royal Alexandra Hotel in Edmonton, Alberta. . . . The Federal Government's new post office, to be constructed in Edmonton, will cost $4m. . . . Fibre Glass Canada, Ltd., are to construct a $2.5m. plant in Edmonton. . . . The Berland River and BC pipeline, which has been approved, will cost $103m. to construct. . . . Steel Rolling Mills plan to construct a $15m. steel plant in Calgary.

CYPRUS.—a proposal was recently approved by the international working group on Cyprus in London, for the building of a new air terminal at Nicosia Airport. The cost of about £½m. will be met by Britain as a gesture of goodwill.

HONG KONG.—The Hang Seng Bank is to erect a 23-storey head office building on the Victoria waterfront bounded by Connaught and Des Voeux-roads and Queen Victoria-street. Estimated to cost $11m., the building is being designed by Mr. T. C. Yuen, and is expected to be completed in 1962. . . . The US Summit Corporation (Panama) plan to build a $60m. oil refinery on either Lantau or Tsing Islands, in Hong Kong waters. The two sites have recently been surveyed by officials of the company. Over the last twelve months some notable progress has been made in the Lower Mekong basin. At a cost of US$1.78m., survey work has proceeded on four of the Mekong's tributaries, providing essential data needed for the construction phases, which are due to start in a few years' time.

PAKISTAN.—The second 5-year plan allocates Rs. 220m. to the development of civil aviation. The training and technical assistance programme initiated must be continued during the plan period. Immediate requirements include completion of the jet runway at Karachi, recarpeting of runways at other airports, improvement at Dacca, Lahore, Rawalpindi and Chittagong, an airport in the north-western area of East Pakistan, and 8 new feeder airports.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s 2½d.

For apprentices, the rates are :

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	52 3
2nd	33⅓	69 8
3rd	50	104 6
4th	66⅔	139 4
5th	75	156 9

For female labour, the rates are :

	s. d.
Operatives on craft operations (at end of probationary period)	4 2½
Operatives on labouring operations (at end of probationary period) ...	3 8½

Contractors' Convention

The third convention of the Asian and Western Pacific Contractors' Association was recently held in Melbourne. The seventy-six delegates from member countries and 150 Australian builders decided upon a scheme to arrange a regular exchange of technical trainees between their respective countries. The idea, which was proposed by the leader of the Japanese delegation, Mr. Yoshiro Ohbayashi, met with enthusiastic support and plans are now to be worked out in detail.

Other matters discussed during the convention were anomalies and unfair terms in contracts, diesel pile hammers, Australian structural economy, repairs to plastered walls, and the preparation of original research reports. The next convention, to be held in 1962, will be at Taipeh in Formosa.

B·A·T·S·F·O·R·D

Plumbing Materials & Techniques

SYDNEY WEBSTER A.R.I.B.A.

Complementary to the author's PLUMBING IN BUILDING yet entirely self-contained, this new book concentrates on the techniques involved, describing in full the relevant methods and materials. 114 *illustrations* 30*s.*

Law of Contract & Tort

A. J. POLLAND

A cohesive digest of the basic principles underlying the law of Contract and Tort, written by a barrister-at-law to provide architects, auctioneers, surveyors and estate agents with a working knowledge of the subject. 37*s.* 6*d.*

4 Fitzhardinge Street W.1

SCOTTISH BUILDER

Glasgow Office Block

A £500,000 OFFICE block for the centre of Glasgow is to be built by the Waterloo Property Co. (Glasgow) Ltd. It will be rented to the Esso Petroleum Co. Ltd., as their Scottish headquarters. The architect is Mr. Baron Bercott, Glasgow, and the main contractors for the first stage are James Laidlaw and Sons, Ltd., Rutherglen.

New Buildings

ABERDEEN.—Final plans for a £1,000,000 technical college at Spring Garden have been passed by Aberdeen Planning Com. They have also been approved by the Scottish Education Department, and now only the question of the method of tendering for the erection of the college remains to be settled by Aberdeen EC.

ANGUS CC.—(a) Lintrathen Water Supply Contract No. 7.—100,000 gallons rc tank; 20 miles of 2 to 7 in. ac water mains. (b) Lundie/Auchterhouse/Tealing Water Supply Contract No. 3—25 miles of 2 to 6 in. ac water mains. Applications to County E., County-bldgs., Forfar.

ANGUS CC.—Construction of a rc service tank of 150,000 gallons capacity, with relative works. Applications to Crouch & Hogg, engrs., 18 Woodside-cres., Glasgow, C3. Dep. £5.

DUMFRIESSHIRE CC.—Permission to build a second chipboard factory at Annan, Dumfriesshire, has been given by the CC to the Airscrew Company and Jicwood Ltd.

DUNDEE.—Consideration is being given to plans for the erection of 20-storey blocks of flats at St. Mary's and Hill Town, Dundee, as part of its future central development scheme.

EDINBURGH.—An ultra modern £10,000 luxury yachting hotel is to be built at Cramond, nr. Edinburgh. An existing mansion house at Marine-dr. is to be converted to operate as the headquarters for all who use the port as a sailing centre.

FALKIRK.—F. W. Woolworth and Co. Ltd. are planning a large scale modernisation and extension scheme to their premises at 71-73 High-st., Falkirk. The alterations will cost in the region of £75,000. A petition was submitted on behalf of the company at Falkirk Dean of Guild Court recently.

FIFE.—The convention of Royal Burghs has given its support to the building of a 35 mile motorway across Fife to link the Forth and Tay-rd. bridges which are now being built.

KIRKINTILLOCH.—A new swimming pool, which will be able to accommodate international swimming events, is to be built at Woodhead Park, Kirkintilloch. Est. cost £100,000.

RUTHERGLEN.—The Rutherglen Dean of Guild Court have approved a petition from Messrs. Varney (Glasgow) Ltd. to build 30 flats with garages at Limeside-ave. and Parkhill-dr., Rutherglen, at a cost of £69,000. The British Chrome and Chemicals Ltd. were also given permission to extend their plant at Glasgow-road, Rutherglen, at a cost of £66,000. Lanark CC has asked the Scottish Home Office to approve a £17,462 contract for eight four-apartment houses at Rutherglen.

STORNAWAY PIER & HARBOUR COMMISSION.—Construction of steel framed transit shed of 9,000 s. ft. floor area at Stornaway. Grattan & McLean, 21 Woodside-ter., Glasgow, architects.

WEST LOTHIAN CC.—Painting contract at Blackburn RC prim. sch. County A., Linlithgow.

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding the entry indicates that applications must be received by this date.

BUILDING

FEBRUARY 3

(AR) SOMERSET CC.—Fixed price tenders for the erection of Street sec. mod. sch. and area college (632 cost places). County A. Dep. £2 2s.

FEBRUARY 4

(AR) HAILSHAM RDC.—Fixed price tenders for 16 houses and four flats at Lepeland, Hellingly. C.

(AR) SURBITON BC.—29 houses at Middleton estate. TC. Tenders by March 17.

(AR) SURREY CC.—Playing field pavilion at Ewell Technical College, Reigate-rd., Ewell. County A.

FEBRUARY 5

(AR) BRISTOL CITY C.—Fixed price tenders for a branch library at Southmead. City A.

(AR) KINGSTON UPON THAMES RBC.—Two houses at Villiers-rd. TC. Dep. £2 2s.

FEBRUARY 6

(AR) ESSEX CC.—Firm price tenders for:—(a) Nurse's house at Manuden. (b) Alterations and installation of lift at a hostel for aged persons, Grosvenor House, Westcliff-on-Sea. (c) Ambulance station at Buckhurst Hill. County A. (separate applications).

FEBRUARY 8

(AR) EAST SUFFOLK CC.—Site works, foundations, services and alterations in connection with a prefabricated timber four-class prim. sch. at Bradwell. County A.

(AR) GRAVESEND BC.—56 flats at Queen-st. and The Terrace.

MIDDLESBROUGH CBC.—31 dwellings at Pallister Park (second development). Boro' E. Dep. £2 2s.

(AR) TWICKENHAM BC.—Cricket pavilion with public lavatory etc., at Murray Park, Whitton, Middx. Boro' E. Dep. £2 2s.

FEBRUARY 11

(AR) WINCHESTER CITY C.—44 dwellings at Winnall Manor estate. A. S. Wilson & Ptnrs., 8 Storey's-gate, SW1. Dep. £2 2s.

FEBRUARY 12

CO. CORK (Eire).—Erection of a dispensary at Crosshaven, Co. Cork, for South Cork Bd. of Assistance. Bd.'s Secretary, 6 George's Quay, Cork. Dep. £5.

CO. OFFALY (Eire).—Erection of proposed Boys' National sch. at Tullamore, Co. Offaly, for Very Rev. W. Moran PP, St. Brigid's, Tullamore, Co. Offaly. CA: J. R. Boyd Barrett, 5 Camden-pl., Cork. Dep. £10 10s.

(AR) LINCOLN CC.—Fixed price tenders for adaptations and extensions at Washingborough county sch. County A. Tenders by March 2.

(AR) MALDON & COOMBE BC.—10 garages and site works at Kingsnympton Park estate. Boro' E&S.

(AR) WEST RIDING CC.—Adaptations and extensions to county Police station at Doncaster-rd., nr. Rotherham. Div. A., Planet-rd., Adwick-le-Street, nr. Doncaster.

FEBRUARY 13

GRIMSBY CBC.—Fixed price tenders for the erection of a science block at Havelock sec. sch., Holyoak-rd. Boro' E&A. Dep. £5.

MABLETHORPE & SUTTON UDC.—Erection of foreshore administration block with public lavatories and eight shops, with intermediate public shelters, on central promenade, Mablethorpe. C. Dep. £3 3s.

FEBRUARY 15

(A) BLACKPOOL CBC.—Kitchen and classroom extension at St. John Vianney sch., Glastonbury-ave., Marton. Boro' S. Dep. £2.

(AR) WOLVERHAMPTON CBC.—Erection of park keeper's bungalow at Heath Town Park. Boro' E. Dep. £2 2s.

FEBRUARY 16

CO. DUBLIN.—Erection of a new factory, office block, stores, garages and ancillary site works, at Balbriggan, Co. Dublin, for Wavin Pipes Ltd. QS: Thomas C. Whelan, National Bank Chbrs., 1-2 Cavendish Row, Dublin, C16. Dep. £50.

FEBRUARY 18

(A) REIGATE BC.—Fixed price tenders for 26 maisonettes, with stores under, at Dome estate (North-st.), Redhill. Boro' S. Dep. £2 2s.

ST. ALBANS City C.—Alterations and additions to city museum, Hatfield-rd. City E&S. Dep. £2 2s.

FEBRUARY 19

(AR) NORTH WEST METROPOLITAN REGIONAL HOSPITAL BD.—Erection of admission wards at St. Bernard's Hospital, Southall, Mdx. Regional A., 40 Eastbourne-ter., W2.

FEBRUARY 22

(A) CHIGWELL UDC.—Designs and quotations invited from manufacturers of prefabricated buildings for a public hall to seat 150. E&S.

(A) REIGATE BC.—Fixed price tenders for the conversion of Whitepost House, Redhill, into 12 flatlets for old people. Boro' S.

FEBRUARY 23

(A) CROYDON CBC.—Science laboratory and adaptations at John Newnham sch., Selsdon Park-rd. Ch. Ed. Officer. Dep. £1.

(A) ILFORD BC.—Erection of three sports pavilions on three sites. Dep. £2 2s. each. Boro' E.

FEBRUARY 25

(A) EALING BC.—Boundary walls at Northolt Park estate. Boro' S. Dep. £2.

(A) WALSALL CBC.—Fixed price tenders for:—(a) 56 houses at Beechdale estate; (b) 64 houses at Beechdale estate; (c) 54 houses at Beechdale estate; (d) 12 houses at Woodwards-rd., and (e) 42 houses at Hildicks Bridge, Goscote-la. Boro' E&S. Dep. £2 2s. (separate contracts).

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FEBRUARY 27

(A) BRIGHTON CBC.—Fixed price tenders for a new pavilion at Rottingdean miniature golf course. Boro' S., E. & Planning Officer. Dep. £2 2s.

FEBRUARY 29

(A) WORCESTER CITY C.—Additional sanitary accommodation at 'Hillborough' home for the aged, Tallow Hill. City E&S. Dep. £3 3s.

MARCH 1

(A) EAST RIDING CC.—Assembly hall at the Institute of Agriculture, Bishop Burton, nr. Beverley. County A. Dep. £2.

MARCH 7

(A) EASTHAMPSTEAD RDC. — Modernisation of 27 houses at Roebuck estate, Binfield, Bracknell. E&S. Dep. £2 2s.

(A) ROCHESTER CITY C.—Fixed price tenders for 23 houses and 12 flats at Warren Wood redevelopment site (stage IV). City S. Dep. £3 3s.

MARCH 8

(A) TIPTON BC.—Fixed price tenders for 12 flats at Alexandra-rd. site. Boro' Housing A. Dep. £3 3s.

SERVICES, PAINTING, MATERIALS, ETC.

FEBRUARY 8

DEWSBURY CBC.—Materials. Boro' E.

ENFIELD BC.—Materials etc. Boro' E.

HASTINGS CORPN.—Materials. Boro' S.

WALTHAMSTOW BC.—Materials and services. Boro' A., E&S.

WARRINGTON CBC.—Fixed price tenders for materials etc. Boro' E&S.

WOLVERHAMPTON CBC. — Materials. Boro' E.

FEBRUARY 10

WATFORD BC.—Materials and services. Boro' E.

FEBRUARY 11

LOWESTOFT BC.—Materials. Boro' E.

WORKINGTON BC.—Materials. Boro' E&S.

FEBRUARY 13

GRIMSBY CBC.—Fixed price tenders for:— (a) Heating and hot water installations with oil-fired boiler plant, and (b) electrical installations at Havelock sec. sch., Holyoak-rd. Boro' E&A. Dep. £5 (each contract).

NEATH BC.—Materials and haulage. Boro' E.

FEBRUARY 15

IPSWICH CBC.—Road materials etc. Boro' E&S.

SWADLINCOTE UDC.—Materials and stores. E&S.

TYNEMOUTH CBC.—Materials. Boro' S.

FEBRUARY 16

(A) BIRMINGHAM City C.—Supply and delivery of cleft chestnut fencing. Housing Mgr.

JARROW BC.—Materials. Boro' E.

FEBRUARY 17

FARNHAM UDC.—Materials. E&S.

FEBRUARY 19

(A) ACTON BC.—Annual redecoration of schools. Boro' E.

MORECAMBE & HEYSHAM.—Materials. Boro' E&S.

FEBRUARY 20

HASLINGDEAN BC.—Materials. Boro' S.

MERTHYR TYDFIL CBC.—Supplies. Boro' E&S.

FEBRUARY 26

(A) WALTHAMSTOW BC.—Materials. Boro' A.

FEBRUARY 29

(A) THURROCK UDC.—Re-roofing of 33 houses at Grays. Estates Mgr., Whitehall-la., Grays.

MARCH 4

COLNE VALLEY UDC.—Materials. S.

MARCH 5

CORNWALL CC.—New plant. County S.

NO DATE

KENT CC.—Materials. County Supplies Officer.

(A) PLYMOUTH CITY C.—Materials. City E.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

FEBRUARY 9

CHAPEL-EN-LE-FRITH RDC. — Fixed price tenders for extension of sewage dis-

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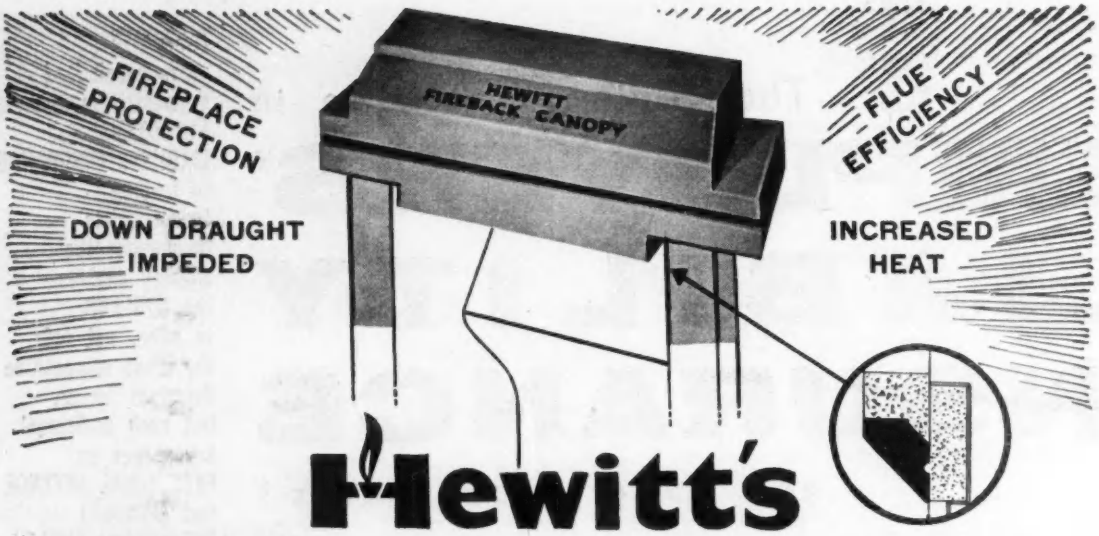

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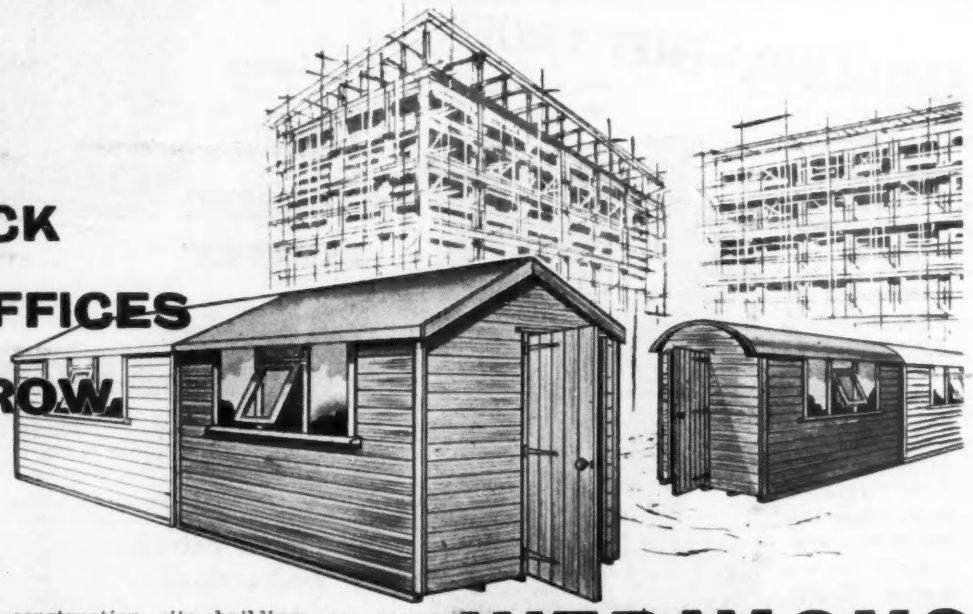

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FEBRUARY 10

ANDOVER, RDC.—2½m. of small dia. sewers and rising mains and two sewerage pumping stations etc., at Chilbolton and Wherwell. Howard Humphreys & Sons, ccl's constg. engrs., Victoria Station House, Victoria-st., SW1. Dep. £3 3s.

FEBRUARY 15

EXETER.—Erection of a 5½m. gallon capacity reservoir at Belvidere-rd. City E., S&Water, E. Dep. £2 2s.

KEIGHLEY BC.—Roads and sewers at Low Bank housing estate. Boro'E.

FEBRUARY 17

(A) NOTTINGHAM City C.—Outfall sewers in tunnel from Bestwood Park housing estate, Oxclose-la. City E&S. Dep. £2.

FEBRUARY 26

TORRINGTON RDC.—Fixed price tenders for:—(a) 2,149 lin. yd. of 6 in. glazed stoneware sewers etc., and construction of a sewage disposal works at Petrockstow. (b) 2,474 lin. yd. of 6 in. glazed stoneware sewers, 230 lin. yd. of 4 in. spun-iron rising main etc., and construction of a pumping station and sewage disposal works etc., at Merton. Harvey, McGill & Hayes, ccl's constg. engrs., 8 Richmond-rd., Exeter. Dep. £5 5s. (each contract).

GENERAL BUILDING WORK (LONDON)

FINSBURY.—£1m. Education Project.—The EC of the LCC have been asked to approve a scheme, costing £1,014,155, for the erection of an 18-storey hall of residence for 500 students of the Northampton College of Advanced Technology and a new LCC technical college on a 2½-acre site at Bunhill Row and Chiswell-st., Finsbury. The est. cost of the hall of residence is £591,785 and the technical college £422,370.

GREENWICH. — Dwellings. — MBC have approved revised scheme for the redevelopment of Haddo-st. area by the erection of 162 dwellings.

HACKNEY. — Dwellings. — MBC have authorised, subject to Ministry approval, the development of the Mount Pleasant-la. site by the erection of 22 flats and six garages at a total cost of £66,150.

HACKNEY.—School Extensions.—In order to have a more satisfactory site on which to build new accommodation for science and practical work for Upton House sec. sch., Hackney, the Education Sub-Com. of the LCC propose to acquire an additional site in Homerton High-st. at a cost of about £31,500. Compulsory powers may be necessary.

HAMMERSMITH.—Special School.—The Special Education Sub-Com. of the LCC recommend the acquisition, at an est. cost of £37,000, of the remaining parts of a site at Banim-st., Hammersmith, on which it is proposed to erect day special school for 200 educationally sub-normal boys and girls.

KENSINGTON.—New Hostel.—The Welfare Com. of the LCC propose to erect a hostel for women at Fenelan-pl., Kensington, at an est. cost of £144,502.

LEWISHAM.—School Improvements.—The Education Sub-Com. of the LCC have approved a scheme to build a four-storey extension of Brockley county sch. at Adelaide-ave., Lewisham. The extension will contain laboratories for elementary and advanced physics, chemistry and biology, and a covered playground on the lower ground floor. The school building in Hilly Fields will also be altered to provide rooms for geography, art and craft, a technical drawing office and an extra classroom. Est. cost £75,000.

ST. MARYLEBONE. — Reconstruction Work.—BC have approved in principle proposals for the reconstruction of the Town Hall at £389,000. T. P. Bennett & Son, architects.

SOUTHWARK.—Flats.—20 flats in a five-storey block are to be constructed by direct employment of labour at Brandon estate, Southwark. Est. cost £61,100.

SOUTHWARK.—School Extensions.—The Education Sub-Com. of the LCC has approved a scheme for erecting two additional floors over an existing wing at the Borough Polytechnic to provide a dental technology laboratory, seven classrooms and a staff room. The scheme has been prepared by Norman & Dawbarn, the governors' architects. Est. cost £60,090.

WIMBLEDON.—Houses.—Subject to the submission of detailed plans, the BC has approved a scheme for the formation of a new road and the erection of 24 houses on land at 51 Parkside. The applicant is Mr. J. Godfrey-Gilbert, on behalf of the Norman Property Co.

WIMBLEDON.—School Building.—Surrey CC propose to erect a new dining-hall and kitchen at Wimbledon county girls' sch. at a cost of £29,414. Plans by County A.

WIMBLEDON.—Shops, Offices etc.—BC has given permission to erection on site of 18 High-st. of shops, offices, residential flat, etc., with three lock-up garages at rear. R. Salmon and Ptnrs., 2a Vicarage-gdns., London, W8, are the architects.

WIMBLEDON.—Redevelopment.—BC has given permission to redevelopment of site of Copse-hill House by formation of new road between Copse-hill and Cottenham Park-rd., and erection of four terraces of six 3-storey houses, three terraces of two-storey houses, one of which will comprise three houses, and the remaining terraces five and six houses, respectively. The developers are Messrs. George Wimpey & Co. Ltd., Hammersmith-grove, London, W6.

WIMBLEDON.—Houses.—BC has given permission to erection of a terrace of eight houses and eight domestic garages on site adjoining Pitman's College, Worcester-rd. The developers are Eastern Industrial Investment Co., c/o Messrs. Chapman, Taylor and Ptnrs., architects, Grand Buildings, Trafalgar-sq., London, WC2.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

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WOOLWICH. — Housing Development Scheme.—The Housing Com. of the LCC propose to erect 251 dwellings on an 8¼ acre site bounded by Plumstead High-st., Rockmount-rd., Grosmont-rd. and Purrett-rd. The 251 new homes will comprise 172 flats, 38 maisonettes, 32 houses, eight flats for elderly people and one flat over a shop. There will also be 46 garages, parking spaces for 56 cars, five play spaces and 73 tenants' stores. The scheme has been designed by the architect's dept. of the LCC. Est. cost, £732,650.

WOOLWICH.—New Halls of Residence.—Plans to erect new halls of residence for Avery Hill Training College at an est. cost of £416,798 have been approved by the Education Sub-Com. of the LCC.

(PROVINCIAL)

ABRAM.—UDC approved plans for conversion of canteen and baths at Maypole Colliery into canning factory for De Haans Ltd.

BLACKBURN.—TC have received Ministry approval for development of an area in King-st. district: a new pavilion at Whitebirk playing fields is proposed by TC, £11,300 est.

BLACKPOOL.—Timothy Whites and Taylors Ltd. have acquired a site in Abingdon-st. and Birley-st., Blackpool, and are to build a new modern store there: BC propose new branch library at Anchorsholme.

BUXTON.—Derbyshire CC propose clinic at Bath-rd.: BC approved plans for showroom and stores at Kennings filling station, Spring Gardens, for Kennings (Buxton) Ltd.

CHESTERFIELD.—BC seek Ministry approval for erection of 450 dwellings: RDC propose 1,000 houses over next 5 years: plans for 53 houses and bungalows at New-rd., Brimington, for George Wimpey & Co. Ltd., and housing development at Station-rd., Brimington, for Mr. T. E. Austin, have been approved by RDC.

CROYDON.—Consideration has been given for the provision of a multi-storey car park on an island site bounded by Tamworth-rd., Frith-rd., Drummond-rd. and Keeley-rd. The est. capital cost of acquiring the site and constructing the car park would be £240,000.

DONCASTER.—RDC approved conversion of Warmsworth Hall as offices for British Ropes Ltd.

EASINGTON.—RDC is to approach Peterlee Development Corpn., Peterlee, about the possibility of constructing a crematorium to serve both areas.

GATESHEAD.—Outline plans have been approved for the erection of eight shops with office accommodation above on site of Scala Cinema, High-st., for Scala (Gateshead) Property Ltd., Marshall and Tweedy, 36 Blackett-st., Newcastle-on-Tyne, architects: A. S. McHugh Ltd., electrical contrs., 46 Sandhill, Newcastle-on-Tyne, are seeking permission to erect offices, showroom and warehouse at South Shore-rd., Gateshead: TC is seeking permission to alter the town's development plan to use nearly 13 acres of land at Whitehouse-la. for housing purposes: Hammonds Breweries Ltd., Bradford, are to erect a PH at Lanchester-ave.

LANCS.—CC seek Ministry approval for following in 1961/62 programme:— First instalment of county prim. sch. at Denton, first instalment of RC prim. sch. at Heywood, extension at Denton Two Trees CS sch., instalment of Denton RC sec. sch., extension at Dowdales CS sch., Dalton-in-Furness, and erection of clinics and child welfare centre at Eccles, Chorley, Nelson and Fulwood: EC approved erection of Darwen St. Cuthbert's CoE sch. at Hawkshaw-ave., Darwen.

LICHFIELD.—TC propose 140 houses at Wheel-la., 200 houses at Trent Valley and 105 dwellings at Sandford-st.

MANCHESTER.—TC have approved plans for a petrol service station at Hulme-st/Lowe Ormond-st., Chorlton on Medlock, for Wright & Green Ltd., G. Aldridge, Farnworth, architect: Charles E. Chaplin & Co., Ltd. propose extensions and improvements to factory at Duke-st., J. H. C. Brown, Middleton, architect: TC have approved plans for new offices and warehouse at Chetwood-rd./Allison-st. for Samuel Jones Ltd., Drury & Gomersall, Manchester, architects.

NEWCASTLE-UNDER-LYME. — BC propose 120 houses at Harrowby-dr. and 77 flats

and 10 single persons' dwellings at The Hollies, Hempstalls-la.

PRUDHOE.—Working drawings are being prepared for further extensions, costing £430,000, at Prudhoe and Monkton Hospital, Prudhoe, for Newcastle Hospital Board. Work is divided into two sections. Plans for one section are by the Bd's Ch. A., S. W. Milburn & Ptnrs., 9 Esplanade, Sunderland, are architects for the other section.

SUNDERLAND.—EC is to spend £19,000 on additions to Havelock jun. sch. and £17,000 on the construction of a community centre at Hylton Red House estate: EC is to negotiate for land at Leechmore-rd. for a RC sec. mod. sch.: Newrick and Blackbell, 58 John-st., Sunderland, are the architects for shop and residential accommodation at Hylton Castle estate for L. R. Quenet: TC has received loan sanction for £323,752 for 253 houses at Town End Farm estate: Mr. F. M. Owsnett, Lloyds Bank Chbrs., Sunderland, has been appointed consulting engineer by the TC for a mental health occupation centre at Plains Farm, Sunderland: S. W. Milburn & Ptnrs., 9 Esplanade, Sunderland, are the architects for a proposed factory at Sunderland for Sixty Minute Cleaners Ltd.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ANTRIM.—Following for RDC:—(a) 82 houses, with garages, at Crumlin, (b) and 31 houses with garages, at Roughfort. (A) James Evans & Sons, Bellaghy, £123,851 and £245,043, respectively.

ATHERSTONE.—50 houses at Atherton. for UDC. (A) C. W. & A. L. Hughes Ltd., Leicester, £72,573.

AYCLIFFE (Co. Durham).—Office and factory extensions (27,000 sq. ft.) at Aycliffe Trading estate for P. B. Kent & Co. Ltd. Gordingley & McIntyre, Durham City, architects. (A) A. Lax & Sons (offices); Ward Bros. (Sherburn) Ltd. (steel and cladding), in conjunction with direct labour.—51 houses nr. Pease Way for Aycliffe Development Corpn. G. A. Goldstraw, architect. (A) Bell & Ridley Ltd.

BASILDON.—505 dwellings and 126 garages at Lee Chapel South, Basildon, Essex, for Basildon Development Corpn. W. W. Atkinson, Smith & Haywood and A. B. Davies, architects. QS: E. C. Harris & Ptnrs. (A) Leslie & Co. Ltd., Peel-st., Kensington, W8, £946,000.

BIRMINGHAM.—Following for City C:—107 houses and maisonettes at Long Nuke-rd., Northfield. (A) C. Bryant & Sons Ltd., £229,000.—Seven shops and six maisonettes on main Coventry-rd. (A) C. Bryant & Sons Ltd., £26,000.—275 dwellings and 145 garages at Nazareth housing estate, Longbridge. (A) Direct labour, £534,000.—68 flats and maisonettes and 50 garages at Eachway estate, Rubery. (A) Mackee & Rodway, £149,000.

BLACKPOOL.—Erection of kitchen and classrooms at St. John Vianney RC sch. for EC. (A) William Eaves & Sons Ltd., Fleetwood, £12,934.

BOLTON.—Phase II of Technical Teacher Training College for BC. (A) Direct labour.

BRACKNELL (Berks.).—60 flats and 32 garages at South Lynn-cres. and Reeds Hill for Bracknell Development Corpn. (A) Geo. Wimpey & Co. Ltd., £112,000.

BRIGHTON.—New brewery building for Tamplin & Sons Brewery Ltd. E. A. Whittaker, architect. QS: Knight & Benwell. (A) Y. J. Lovell & Son Ltd., Horsham, £50,000 (approx.).

CAMBERLEY.—Erection of France Hill county sec. sch. for EC. (A) Gee Walker & Slater Ltd., £161,664.

CHISLEHURST.—Housing at Woodlands-rd., Chislehurst, Kent. (A) Frank R. Freeman Ltd. (approx. cost £45,000).

CHORLEY.—18 aged persons' bungalows at Whittle-le-Woods for RDC. (A) J. W. Lee Ltd., Yarrow-rd. Sawmills, Chorley.

CRAWLEY.—Factory extension for Fry's (London) Ltd. Donald Scott & Ptnrs., architects. QS: Wheeler, Rumble & Ptnrs. (A) Y. J. Lovell & Son Ltd., £65,872.

DARLINGTON. — Self-service shops at Branksome and Firth Moor estates for Darlington Co-op. and Industrial Society. Plans by CWS architects' dept. (A) J. W. Richardson & Sons, Quebec-st., Darlington.—164 houses at Lingfield estate for TC. (A) F. Shepherd & Sons, York, £245,036 (negotiated contract).—Alterations and additions to laundry block at Memorial Hospital, Darlington, for Newcastle-on-Tyne Regional Hospital Bd. Godsmark & Miller-Williams, architects. (A) Rowells (1924) Ltd., £24,462 (engineering services); L. C. Abdale Ltd., Darlington (building work).

DERBY.—Extensions to a store at Victoria-st., Derby, for Ranbys Ltd. (A) Ford & Weston Ltd., £251,750.

DUNGENESS.—New lighthouse at Dungeness, Kent, for Trinity House. R. Ward & Ptnrs., architects and engineers, in co-operation with Trinity House engineers. (A) Taylor Woodrow Construction Co. Ltd.

DUNKINFIELD.—160 'Homeville' dwellings for BC. (A) Middleton & Co. (Blackpool) Ltd., £174,849 (recommended in lieu of previous tender).

DURHAM.—36-inch water mains from Mosswood Pumping station to Castleside service reservoir for Durham County Water Bd. Ch. E.: A. C. Wildsmith. (A) Direct labour, £133,000.

ECCLES.—Church and Presbytery at Aldred-st. for Salford RC Diocesan Trustees Ltd. Walter Stirrup and Son, architects. (A) R. Carlyle & Co., £52,000.

FELLING (Co. Durham).—Alterations to Government training centre. (A) R. Reynolds & Co., Newcastle-on-Tyne.

GUILDFORD.—New civic hall at Firs site for TC. Peter Shepheard, architects. (RA) Dove Brothers Ltd., £229,597.

GUILDFORD.—Erection of Tillingbourne county sec. sch. for EC. (A) R. Holdford & Co. Ltd., £86,890.

HORSHAM.—Erection of 'The Coot' PH for Kemp Brewery (Brighton) Ltd. Godman & Kay, architects. QS: P. J. D. Mitchell. (A) Y. J. Lovell & Son Ltd., £15,888.

HUDDERSFIELD.—Alterations to 'Briarcourt' Lindley home for aged persons for BC. (A) G. Thompson & Son, Spring-st., Huddersfield.

LEIGH.—Extensions at 15/17 Bradshawgate, Leigh, for Boots Pure Drug Co. Ltd. Plans by staff architect. (A) George Moss & Sons Ltd., Pennington Sawmills, Leigh.

LIVERPOOL. — New motor engineering works at Wood-st. for J. Blake & Co. Ltd., Liverpool. (A) Unit Construction Co. Ltd., Liverpool.

LONDON.—Following for BC:— 24 dwellings at Talbot Close housing redevelopment. (RA) Hale Construction Co. Ltd., £41,295.—60 dwellings at Tewkesbury estate. (RA) Thos. McIverney & Sons Ltd., £143,571.

LONDON.—Offices at High-rd., Leytonstone, E11, for Pearl Assurance Co. Ltd. W. J. Lewis & Sons, Ilford, architects. (A) Frank R. Freeman Ltd., Chapel-st., London—Six-storey block of flats at Palace-rd., Streatham. Malcolm Peck, Roberts & Associates, Guildford, architects. (A) Frank R. Freeman Ltd.

LONDON.—Reconstruction of buildings at Mansion House station for London Transport. (A) L. & W. Whitehead Ltd., £72,000 (approx.).

LONDON CC.—Erection of a new county prim. sch. at Albert-dr. and Princess Way, Wimbledon Parkside, for EC. (A) Halse & Sons Ltd., Woolwich, £51,982. Sewage scheme at St. John's Wood. (A) John Mowlem & Co. Ltd. (approx. cost £100,000).

LONDON CC.—40 maisonettes and five flats, with car park and tenants' stores, at Alton estate, Wandsworth.

W. H. Gaze & Sons Ltd.	£232,544
Bernard Sunley & Sons Ltd.	206,930
Carlton Contractors Ltd.	203,409
Rowley Bros. Ltd.	200,714
Unit Construction Co. Ltd.	199,870
M. J. Gleeson (Contractors) Ltd.	199,744
Tersons Ltd.	195,931
Thomas & Edge Ltd.	195,520
(A) Wates Ltd.	193,595
Architect's comparable estimate	199,691

LONDON CC.—Construction of viaduct at Hammersmith Broadway as part of the Cromwell-rd. extension.

Holland & Hannen and Cubitts (Great Britain) Ltd.	£1,041,996
The Demolition & Construction Co. Ltd.	1,035,405
Peter Lind & Co. Ltd.	1,030,580
Taylor Woodrow Construction Ltd.	1,024,457
James Miller & Partners, Ltd.	1,008,974
John Mowlem & Co. Ltd.	989,135
Richard Costain Ltd.	985,900
W. & C. French Ltd.	976,523
(A) Marples, Ridgway & Partners Ltd.	912,560†
Appointed engineers', G. Maunsell & Ptnrs., comparable estimate	1,209,000

† After arithmetical correction.

LONDON CC.—Road improvement and SW drainage works in Elephant and Castle development area.

Arnold & Nathan Ltd.	£129,690
Willment Bros. Ltd.	123,079
Fitzpatrick & Son (Contractors), Ltd.	121,993
J. Murphy & Sons Ltd.	110,802
(A) Mowlem (Civil Engineering) Ltd.	107,688
Chief engineer's comparable estimate	120,000

LONDON CC.—24 flats, 16 maisonettes, four garages and tenants' stores etc., at South Lambeth estate extension, Lambeth.

Bridge, Walker Ltd.	£106,395
Rice & Son Ltd.	104 735
Speirs Ltd.	103,301
Stewart & Partners Ltd.	103,047
Gray, Conoley & Co. Ltd.	102,163
Kirk & Kirk Ltd.	101,473
Rowley Bros. Ltd.	99,896
Gee, Walker & Slater Ltd.	97,654
(A) G. Ward (Ealing) Ltd.	94,215
Architect's comparable estimate	96,009

LONDON CC.—New occupation centre for mentally deficient children at Ickburgh-rd., Hackney Central.

T. R. Roberts (Builders) Ltd.	£57,192
Stewart & Partners Ltd.	57,092
S. E. Glover Ltd.	56,768
William Blood Ltd.	53,132
Ward & Paterson Ltd.	52,360
Poolman (Builders) Ltd.	50,948
(A) Harrison & Spooner Ltd.	50,898
Architect's comparable estimate	49,811

LONDON CC.—32 maisonettes and 16 garages at Cotmandene-cres., St. Paul's Cray estate, Kent.

Kirk & Kirk Ltd.	£114,510
Rowley Bros. Ltd.	113,494
Leslie & Co. Ltd.	112,400
Carlton Contractors Ltd.	111,333
J. Gerrard & Sons Ltd.	108,890
M. J. Gleeson (Contractors) Ltd.	105,974
Thomas & Edge Ltd.	104,807
Rush & Tompkins Ltd.	104,451
R. Mansell Ltd.	103,739
(A) Croudace Ltd.	102,508
Architect's comparable estimate	103,502

LONDON CC.—53 flats and maisonettes, stores, garages and parking spaces etc., at St. Leonard's-rd. sch. site, Poplar.

H. Webb (Builders) Ltd.	£171,902

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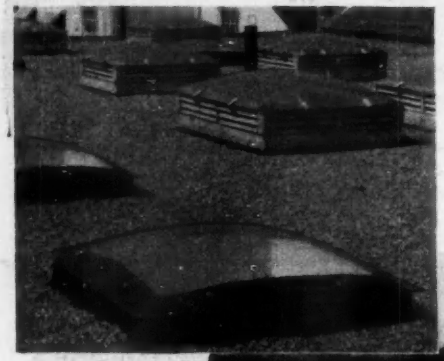

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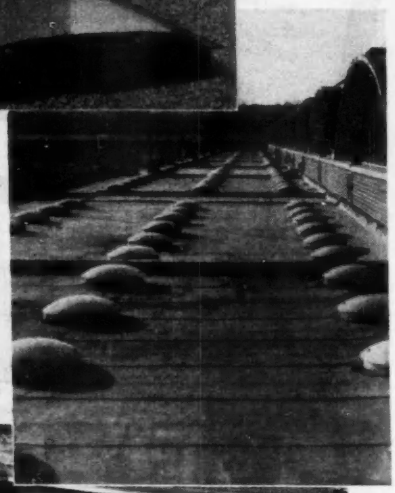

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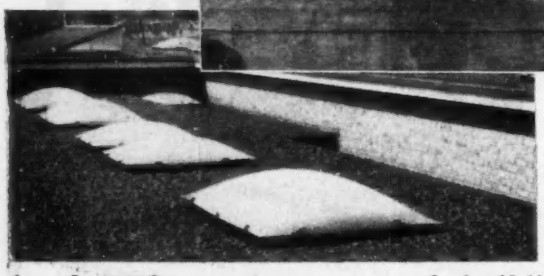

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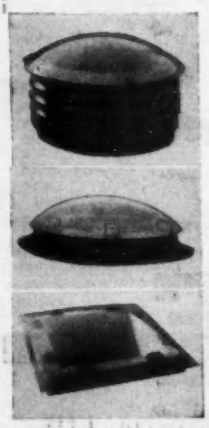

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Token Construction Co. Ltd. ...	151,364
J. Jarvis & Sons Ltd.	145,824
(A) Thomas McInerney & Sons Ltd.	131,124
Architect's comparable estimate ...	140,191

LONDON CC.—Design and construction of pile and beam foundations for eight four-storey blocks of maisonettes and two five-storey blocks of flats at Pier-st. site, Poplar.

Terresearch Ltd.	£27,990
The Cementation Co. Ltd.	24,543
Soil Mechanics Ltd.	22,550
(A) The Pressure Piling Co. (Parent) Ltd.	20,830
Director of housing's comparable estimate	23,000

LONDON CC.—80 flats and maisonettes, four shops and 17 tenants' stores etc., at Mountmorres-rd., Stepney.

H. Webb (Builders) Ltd.	£177,171
William Old Ltd.	176,550
Bernard Sunley & Sons Ltd. ...	176,325
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Rush & Tompkins Ltd.	171,099
J. M. Hill & Sons Ltd.	169,735
W. J. Simms, Sons & Cooke Ltd. ...	168,722
Tersons Ltd.	167,658
Thomas & Edge Ltd.	167,652
(A) Kirk & Kirk Ltd.	166,530
Architect's comparable estimate ...	165,644

LONDON CC.—75 maisonettes, 26 tenants' stores and parking spaces, etc., at Birchfield estate, Poplar.

Tersons Ltd.	£239,524
Rush & Tompkins Ltd.	227,889
A. T. Rowley (London) Ltd. ...	225,264
J. M. Hill & Sons Ltd.	220,894
Y. J. Lovell & Son Ltd.	216,723
Leslie & Co. Ltd.	216,670
Bernard Sunley & Sons Ltd. ...	213,143
Thomas & Edge Ltd.	211,430
Rowley Bros. Ltd.	210,628
(A) W. & C. French Ltd.	209,477
Architect's comparable estimate ...	211,222

LONDON CC.—48 flats, 21 maisonettes, four garages and six tenants' stores, at Bigland-st., Stepney.

W. H. Gaze & Sons Ltd.	£189,963
Rowley Bros. Ltd.	182,134
William Willett Ltd.	179,459
Thomas McInerney & Sons Ltd. ...	179,022
Tersons Ltd.	177,853
Rush & Tompkins Ltd.	176,528
W. J. Simms, Sons & Cooke Ltd. ...	175,657
J. M. Hill & Sons Ltd.	174,658
Thomas & Edge Ltd.	169,965
(A) H. Webb (Builders) Ltd. ...	165,169
Architect's comparable estimate ...	171,720

LONDON CC.—119 maisonettes, 16 tenants' stores and garages, etc., at Maida Vale site, Paddington North.

Wilson Lovatt & Son Ltd.	£344,532
Wates Ltd.	344,374
Kirk & Kirk Ltd.	337,390
Rush & Tompkins Ltd.	328,172
Bernard Sunley & Sons Ltd. ...	324,551
W. J. Simms, Sons & Cooke Ltd. ...	322,501
Token Construction Co. Ltd. ...	317,077
Leslie & Co. Ltd.	310,596
M. J. Gleeson (Contractors) Ltd. ...	310,419
Tersons Ltd.	309,815
(A) Rowley Bros. Ltd.	297,982
Architect's comparable estimate ...	308,786

LONDON CC.—10 flats and nine tenants' stores at Milne estate extension.

Rush & Tomkins Ltd.	£32,160
J. M. Hill & Sons Ltd.	30,478
R. Mansell Ltd.	30,410
The Demolition & Construction Co. Ltd.	29,970
Y. J. Lovell & Son Ltd.	29,685
Thomas & Edge Ltd.	29,290
Haymills (Contractors) Ltd.	28,940
(A) Charles R. Price	28,357
Comparable estimate of the appointed architects, Adie, Button & Ptnrs.	27,458

LONDON CC.—24 flats, 19 houses, 12 tenants' stores and 14 garages, etc., at Perry Hill site, Lewisham West.

Wilson Lovatt & Sons Ltd.	£121,856
Carlton Contractors Ltd.	121,540
Halse & Sons Ltd.	119,443
W. J. Simms, Sons & Cooke Ltd. ...	118,404
Rush & Tompkins Ltd.	117,784
Gee, Walker & Slater Ltd.	116,994
Tersons Ltd.	116,617
M. Howard (Mitcham) Ltd. ...	115,939
Rowley Bros. Ltd.	114,638
(A) Thomas & Edge Ltd.	113,314
Architect's comparable estimate ...	115,984

LONDON CC.—Design and installation of pile foundations for a 25-storey block of dwellings at Draper-st., Southwark.

John Gill Contractors Ltd.	£33,025
Terresearch Ltd.	23,876
Soil Mechanics Ltd.	23,000
The Pressure Piling Co. (Parent) Ltd.	21,039
(A) Piling Contruction Co. Ltd. ...	20,987
Architect's comparable estimate ...	26,188

LONDON CC.—22 maisonettes, nine houses, 11 tenants' stores and five garages at Aboyne estate, Wandsworth Central.

W. H. Gaze & Sons Ltd.	£88,763
Marshall, Andrew & Co. Ltd. ...	87,112
Gray, Conoley & Co. Ltd.	86,909
Truett & Steel Ltd.	84,993
H. T. Oliver & Sons Ltd.	84,629
Stewart & Partners Ltd.	82,463
Croudace Ltd.	80,547
(A) M. Howard (Mitcham) Ltd. ...	78,970
Architect's comparable estimate ...	81,173

LONDON CC.—24 flats and maisonettes, nine tenants' stores, four garages and parking spaces for four cars, at Ashburton estate, Wandsworth.

A. T. Rowley (London) Ltd.	£64,347
T. R. Roberts (Builders) Ltd. ...	61,594
M. J. Gleeson (Contractors) Ltd. ...	61,253
Thomas & Edge Ltd.	60,786
Kirk & Kirk Ltd.	59,188
Peploe & Partners Ltd.	59,116
Farrans Ltd.	57,467
M. Howard (Mitcham) Ltd.	55,642
Token Construction Co. Ltd. ...	55,135
(A) G. Ward (Ealing) Ltd.	53,272
Architect's comparable estimate ...	55,666

(GD) LONDON (Admiralty). — Contracts over £1,000 in value: *Kent:* Reinstatement of road and rail areas, Bensted Contractors Ltd., Maidstone. *Warwickshire:* Glazing and resheeting, H. Clarke & Sons Ltd., Coventry. *Cornwall:* Workshop erection, Noye Bros., Helston *Hampshire:* Ablution block annexe, Basford & Sons (Contractors) Ltd., Gosport, *Fife:* Afloat section shed, J. R. & A. Adam Ltd., Lochgelly.

(GD) LONDON (Air Ministry).—New works contracts to the value of £500 or over for week ended January 22:—*Building work:* Bentley Priory, Middx., E. J. G. Morgan Ltd., Industrial Estate, Uxbridge, Middx.; High Wycombe (Daws Hill), Bucks., Lavender McMillan (Cttrs.) Ltd., 54 Cheam Common-rd., Worcester Park, Surrey; Church Fenton, Yorks., Fred Pearson & Co. Ltd., 32 Cemetery-rd, Doncaster, Yorks.; Oban, Argyllshire, Charles Gray (Builders) Ltd., 4 Francis-st., Coldside, Dundee, Angus; RAF Station Misson, Notts., M. J. Gleeson (Contractors) Ltd., 816-822 Chesterfield-rd., Sheffield 8, Yorks. *Concrete apron (renewal):* Thorney Island, Sussex, Warings (Contractors) Ltd., London-rd., Hilsea, Portsmouth, Hants. *Hangar etc. (dismantling, transporting, re-erection of):* Scampton, Lincs., W. & J. Simons Ltd., Gordon-rd., West Bridgford, Nottingham. *Artificers' work:* Cheadle Ashbourne etc. Staffs., J. A. Bailey & Sons (Builders) Ltd., 25 Tape-st., Cheadle, Stoke-on-Trent, Staffs.; Sculthorpe (Norfolk) etc., Kyle Stewart (Contractors) Ltd., Ardshielhse., Empire Way, Wembley, Middx.; Biggin Hill (Kent) etc., R. Corben & Son Ltd., West Borough, Maidstone, Kent. *Dismantling work etc. (timber masts):* from Anstruther (Scotland) to Middleton-st. George, Co. Durham, Shildon and Swanton Morley, Norfolk, William Harbrow Ltd., 214 Rotherhithe New-rd., SE16. *Maintenance work (railway sidings):* Welford, Berks., William Jones Ltd., Adamhse., 1 Fitzroy-sq., W1. *Structural modification to superstructure of hangars:* Upper Heyford, Oxon., Newtown Steelwork Co. Ltd., PO Box No. 15, Burnley, Lancs.

LONDON (British Railways).—Contracts let by London Midland Region: Industrial Engineering Ltd., Vogue-hse., Hanover-sq., W1, reconstruction of shed roof at motive power depot, Burton-on-Trent.—Leonard Fairclough Ltd., 3 Chapel-st., Adlington, Lancs., provision of timber ladders and platform at Pump House. Shore-rd., Birkenhead. —Mellowes & Co. Ltd., Bridge-st., Sheffield 3, patent glazing of new platform awnings at London Road Station, Manchester.—Thomas Fletcher & Co. Ltd., Forest-rd., Mansfield, Notts., reconstruction and strengthening of bridges Nos. 78, 91, 118, and 213 over Grand Union Canal on London Euston and Rugby Midland line.—Butterley Co. Ltd., Butterley, nr Derby, supply fabrication and delivery of steelwork for bridge No. 5 on Macclesfield & Colwich line.—Norwest Construction Co. Ltd., Ruthven-rd., Litherland, Liverpool 21, construction for the Ministry of Transport of a bridge, nr. Holmes Chapel, carrying the Crewe-Stockport line over the Birmingham-Preston motorway.—C. A. Horton Ltd., Brierley Hill, Staffs., construction for the Ministry of Transport of a new bridge No. 5138 at North Ashton carrying the Lancashire Union Line over the Birmingham-Preston motorway.

LONDON (British Railways).—Contracts placed by the Eastern Region, Braithwaite & Co. Structural Ltd., 'The Moorings,' Church-rd., Great Bookham, Surrey, reconstruction of portion of superstructure of underline bridge No. 11 carrying the up main, down main and up neck lines over River Doe Lea between Staveley Town (closed) and Clowne & Barlborough.—Ericsson Telephones Ltd., 22 Lincoln's Inn Fields, WC2, supply and installation of complete train describer system between Hackney Downs, Seven Sisters, Enfield Town and Chingford.—Samuel Butler & Co. Ltd., Albion-wks., Stanningley, nr. Leeds, reconstruction of Swaithe overbridge No. 65 over main lines, between Wombwell (West) and Barnsley (Courthouse).—George E. Taylor & Co. (London) Ltd., 34 Southwark Bridge-rd., SE1, supply, delivery and erection of electric lighting and power installation at Southbury, Turkey Street and Theobalds Grove stations.—Pitchers Ltd., 57 Ashburton Grove, N7, provision of standby power house at Upminster and alterations to existing signal box and construction of new relay room at Upminster East.—W. & C. French Ltd., Buckhurst Hill, Essex, part demolition of bridge No. 207 and adjacent buildings, the construction of new abutments, wing walls and welded girder bridge and the resiting of the down side parcels lift shaft on new foundations at Colchester station.

(GD) LONDON (MoW).—Works contracts for week ended January 16: *Berkshire:* Broadmoor Institution, Crowthorne, proposed dining room and scullery, Goodall, Barnard & Clayton Ltd., 61 Worting-rd., Basingstoke, Hants; security measures, John C. Sargent Ltd., St. Andrews Works, Bracknell. *Cornwall:* Coast guard station, Port Isaac, new bathrooms, external stores, and decorations, T. E. Davey & Son, 20 Fernleigh-rd., Wadebridge; Ministry of Agriculture, Fisheries and Food, Old Post Office, Redruth, adaptations and alterations, Dudley Coles, Bath-st., Plymouth, Devon. *Essex:* Post Office engineering depot, Southend, removal of spoil heap, A. E. Symes Ltd., 236/52 High-st., Stratford, E15. *Gloucestershire:* Inland

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Revenue Office, Hillfields, Denmark-rd., Gloucester, occupational services, W. J. B. Halls Ltd., Barton Gates, Gloucester; Central telephone exchange, Bristol, erection, Stone & Co. (Bristol) Ltd., Bristol, 6. *Herefordshire:* Ministry of Supply depot, Rotherwas, adaptations, Bayley Bros. (Hereford) Ltd., Cotterell-st., Hereford. *London:* Tate Gallery, SW1, excavation work, J. C. Blythe & Co. Ltd., 9 Baring-rd., SE12. *Middlesex:* Post Office storage depot, Ashford, alterations and additions to sheds, Lavender, McMillan (Contractors) Ltd., 54 Cheam Common-rd., Worcester Park, Surrey; India Pavilion, Wembley Exhibition, internal decorations, Alfred Bagnall Ltd., 106/8 High-st., Teddington; National Physical Laboratory, Teddington, helium tunnel building, E. Gostling (Builders) Ltd., Clare-wks., Holly-rd., Hampton Hill. *Midlothian:* Telephone exchange, Clark-rd., Granton, Edinburgh, erection, R. Banks & Son, 133 Inveresk-rd., Musselburgh; Telephone exchange, Tynecastle, Edinburgh, erection of branch Post Office, J. Turner & Co. Ltd., Westfield-st., Edinburgh, 11. *Suffolk:* Ministry of Agriculture, Fisheries and Food, Capps Stores, Lowestoft, extension to wet store and garage, Palfrey & Webb Ltd., Whaplood-rd., Lowestoft. *Warwickshire:* Post Office, Aston Barracks, Birmingham, resurfacing yard areas, W. J. Glossop Ltd., 46 Broad-rd., Acocks Green, Birmingham, 27. *Wiltshire:* Tidworth Garrison, Phase IV, additional works, Brightside Heating and Engineering Co. Ltd., Anson-rd., Milton, Portsmouth, Hants; Post Office, Castle-st., Salisbury, alterations and minor works, Wost & Way, 37 Castle-st., Salisbury.

(GD) LONDON (War Dept.),—Works contracts for week ended January 15: *Essex:* (Havengore Island), building, F. Mowle Ltd., Leigh-on-Sea. *Shropshire:* (Donnington), electrical, Hartley Installations Ltd., Shrewsbury; (Donnington), miscellaneous, J. A. Whitticase, Aldridge. *Staffordshire:* (Sudbury), electrical, C. A. Newton & Co. Ltd. Derby. *Surrey:* (Camberley), roofing, Davies & Rentowl Ltd., St. Albans. *Co. Tyrone:* (Omagh), miscellaneous, McCann Bros., Omagh. *Warwickshire:* (Sutton Coldfield), demolitions, Demolition & Construction Co. Ltd., London, SW1; (Long Marston), repairs to acid pickle tank, Prodorite Ltd., Wednesbury. *Wiltshire:* (Salisbury Plain); structural insulation, Thermac Insulations Ltd., London, SW1.

LOUGHBOROUGH.—30 flats at Pinfold-st., for Housing Com. (GD) Hughes Bros., Ltd., Leicester, £43,617.

OAKENGATES.—70 houses for UDC. (A) Gregory Housing Ltd., Worthing.

MIDDLESBROUGH.—Shops and offices at Corporation-rd. for Pearl Assurance Co. Ltd., High Holborn, WC1. Kitching & Co., Middlesbrough, architects. (A) Stephen Coates Ltd., North Ormesby, Middlesbrough.

NEWCASTLE.—Modernisation and extension to main kitchen at Newcastle General Hospital, for Newcastle Regional Hospital Bd. M. Gatoff and P. H. Knighton, architects. QS: Thos. Barrett, Sons & Ptnrs. (A) H. Kindred (Newcastle) Ltd., £43,084.

NEWCASTLE UNDER LYME.—Stage 1 of new library at University College of North Staffs., Keele. (A) Cooper Bros. and John Clayton Ltd., Catherine-st., Macclesfield.

NORTHAMPTON.—Redevelopment of the Peacock Hotel site at Market-sq. for New Peacock Ltd. L. Cooke, architect. Est. cost. £140,000. (A) Bernard Sunley & Sons Ltd.

SEDGLEY.—50 houses and 16 flats for UDC. (A) Gregory Housing Ltd., Worthing.

SKELTON (Yorks.). — 42 dwellings at Marske-la. estate (three contracts). (A) Morrison Brothers, East Loftus (14 houses); F. J. Willis & Son, Hinderwell (16 houses); C. Hebditch, Loftus (12 bungalows).

SMETHWICK.—Improvements to sanitary accommodation at Devonshire-rd. schools for BC. (A) William Cooper & Son (Builders) Ltd., Birmingham, £15,389.

SPENNYMOOR. — Factory for North-Eastern Trading Estates Ltd., for Thorn Electrical Industries Ltd., Fennell & Baddiley, Chester-le-Street, architects. (A) Stephenson (Contractors) Ltd., Bishop Auckland.

STOCKTON-ON-TEES. — Tyre storage depot at Portrack for Provincial Tyre Co., Grove-st., Stockton. (A) Tarslag Ltd., Bowesfield-la., Stockton-on-Tees.

WOKINGHAM.—New infants' sch. for Berkshire EC. Wells, Hickman & Ptnrs., New Wharf-rd., N1, architects. QS: C. R. Wheeler, Victoria-st., SW1. (A) J. M. Jones & Sons Ltd., Maidenhead, £48,700.

WOODCOTE (Oxon.).—Stage one of new science block at The Oratory sch. for the governors of the Oratory sch. Association. Poulton & Freeman, Bryanston-sq., London, architects. QS: E. R. Rabbs & Sons, Piccadilly. (A) J. M. Jones & Sons Ltd., Maidenhead, £52,000 (negotiated contract).

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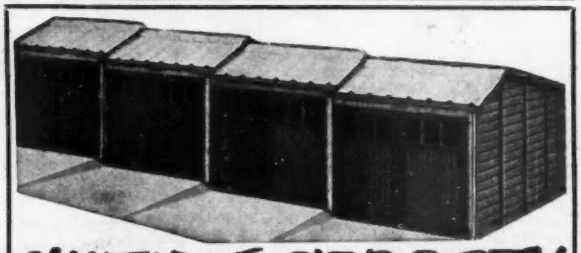

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Rate : 30/- per inch, minimum ½-inch ; each additional line 2/- **Competitions Contracts Public Appointments**

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

CONTRACTS

NORTH - WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

ERECTION OF ADMISSION WARDS AT ST. BERNARD'S HOSPITAL, SOUTHALL, MIDDLESEX.

Building Contractors wishing to TENDER for the above work are invited to submit their names for inclusion on a selected list of tenderers.

The buildings will be single storey brick construction with pitched tiled roofs and will consist of four separate wards linked by an existing covered way, together with a kitchen block. The estimated cost is approximately £130,000.

The Architects responsible to the Board for this work are Messrs. Tooley & Foster, Midland Bank Chambers, Buckhurst Hill, Essex, and the work will be carried out under their supervision.

It is anticipated that invitations to tender will be issued about mid-March, 1960, and that work on the site will commence in May, 1960.

Applications, together with details of works carried out and their value, should reach the Regional Architect, North West Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, W.2, not later than FRIDAY, 19th FEBRUARY, 1960.

BOROUGH OF WALTHAMSTOW.

BOROUGH ARCHITECT'S DEPARTMENT.

BUILDING WORKS SECTION.

TENDERS are invited for the SUPPLY OF THE FOLLOWING MATERIALS for the year ending 31st March, 1961 :—

(1) PLUMBERS' GOODS.
(2) GENERAL IRONMONGERY.
(3) PAINTERS' SUNDRIES.
(4) PLASTERING AND ROOFING MATERIALS.
(5) PAINTER'S BRUSHES.
(6) SHEET GLASS.
(7) CLEFT CHESTNUT FENCING.
(8) SAND AND BALLAST.
(9) PAINT.
(10) SALT-GLAZED WARE, PIPES AND FITTINGS.

General conditions, specifications and forms of Tender may be obtained from the Borough Architect, Town Hall, Walthamstow, E.17.

Sealed Tenders, in the envelope provided, must be delivered to the undersigned not later than 12 NOON on FRIDAY, 26th FEBRUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.

COUNTY BOROUGH OF WOLVERHAMPTON.

KEEPER'S BUNGALOW, HEATH TOWN PARK, WOLVERHAMPTON.

Building Contractors are invited to TENDER for the ERECTION OF A PARK KEEPER'S BUNGALOW.

Form of Tender and Bills of Quantities will be forwarded after receipt of a written application to the Borough Engineer, Town Hall, Wolverhampton, by MONDAY, 15th FEBRUARY, accompanied by a deposit of two guineas, returnable upon receipt of a bona fide Tender.

The date for submission of Tenders will be notified when the Bills of Quantities are forwarded.

COUNTY BOROUGH OF BLACKPOOL.

TENDERS (by 2.30 p.m. MONDAY, 15th FEBRUARY, 1960) are invited for the ERECTION OF A NEW KITCHEN AND CLASSROOM EXTENSION at the rear of St. John Vianney School, Glastonbury-avenue, Marton, Blackpool, to be commenced at an early date and completed in 26 weeks.

Bills of Quantities are obtainable from Borough Surveyor (Arthur Hamilton, B.Sc., A.R.I.B.A.), Municipal Buildings, Blackpool (P.O. Box 17), on payment of £2 deposit.

COUNTY OF LINCOLN. PARTS OF KESTEVEN.

WASHINGBOROUGH COUNTY SCHOOL—ADAPTATIONS AND EXTENSIONS.

Contractors willing to TENDER for the above work are invited to submit their names to the County Architect, County Offices, Sleaford, Lincs, not later than the 12th February, 1960.

Selected firms will be supplied with Tender documents and must submit their Tenders, addressed to the undersigned, by not later than 10 a.m. on the 2nd MARCH, 1960.

Tenders will be on a fixed price basis.

J. E. BLOW,
Clerk of the County Council.

County Offices,
Sleaford.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED PLAYING FIELD PAVILION AT EWELL TECHNICAL COLLEGE, REIGATE-ROAD, EWELL.

The work consists of the ERECTION in permanent construction of a TWO-STOREY PAVILION, including shower-baths, changing rooms, and lavatories.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston-upon-Thames, by 4th FEBRUARY, 1960.

CHIGWELL URBAN DISTRICT COUNCIL.

PUBLIC HALL.

DESIGNS and QUOTATIONS are invited from manufacturers of prefabricated buildings for a PUBLIC HALL to seat 150. Schedule of requirements from Engineer and Surveyor (G. Holbourn, Esq., A.M.I.C.E., M.Inst.Mun.E.), Council Offices, Old Station-road, Loughton, Essex, to whom sketch designs and quotations should be sent by MONDAY, 22nd FEBRUARY, 1960.

BOROUGH OF TIPTON.

ERECTION OF 12 FLATS IN TWO THREE-STOREY BLOCKS, ALEXANDRA-ROAD SITE, NO. 4.

TENDERS on a Fixed Price Basis are invited for the ERECTION OF 12 FLATS IN TWO THREE-STOREY BLOCKS in Alexandra-road, adjacent to Queens-road, Tipton.

Bills of Quantities embodying Specifications and Form of Tender may be obtained and the General Conditions of Contract and deposited plans inspected on application to the Borough Housing Architect, Municipal Buildings, Sedgley-road West, Tipton, on payment of a deposit of £3 3s. 0d. which will be refunded on receipt of a bona fide Tender.

Cheques should be made payable to Tipton Corporation.

The complete Bills of Quantities must be in the hands of the Architect within seven days after written request, following opening of Tenders.

Sealed Tenders in the endorsed envelope provided must reach the undersigned not later than FIRST POST on TUESDAY, 8th MARCH, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

KENNETH W. MADIN,
Town Clerk.

Municipal Buildings,
Sedgley-road West,
Tipton.

BOROUGH OF SURBITON.

MIDDLETON ESTATE—PHASE III—SURBITON.

ERECTION OF 29 HOUSES.

Contractors are invited to submit their names for permission to TENDER for the above mentioned building work.

The contract comprises the CONSTRUCTION OF 29 TRADITIONAL TYPE HOUSES IN PAIRS AND TERRACES.

The Architect is Clifford Culpin, Esq., O.B.E., F.R.I.B.A., M.T.P.I., and the Quantity Surveyors, Messrs. Dearle & Henderson.

The Contractors should indicate in their applications details of recent similar work they have executed and names and particulars should be received by the undersigned not later than NOON on 4th FEBRUARY, 1960.

Bills of Quantities will be posted out on 16th February and Tenders will be due in on THURSDAY, 17th MARCH, 1960.

JOHN H. A. CRUNDELL,
Town Clerk.

Council Offices,
Surbiton.

BOROUGH OF MALDEN AND COOMBE.

KINGSNYMPTON PARK ESTATE, KINGSTON VALE, NEW MALDEN.

ERECTION OF GARAGES—STAGE I.

Contractors desirous of TENDERING for the ERECTION OF NO. 10 GARAGES, INCLUDING SITE WORKS, are invited to submit their names WITHIN 14 DAYS of the appearance of this notice.

Names shall be submitted to John Apse, A.M.I.C.E., Borough Engineer and Surveyor, Municipal Offices, New Malden, Surrey.

From the names submitted a panel of contractors will be selected to whom Tender documents will be sent in due course.

HAROLD E. BARRETT,
Town Clerk.

Municipal Offices,
New Malden,
Surrey.

COUNTY BOROUGH OF WALSALL.

HOUSING COMMITTEE.

ERECTION OF 56 HOUSES, BEECHDALE ESTATE—CONTRACT 1 : 64 HOUSES, BEECHDALE ESTATE—CONTRACT 2 : 54 HOUSES, BEECHDALE ESTATE — CONTRACT 3 : 12 HOUSES, WOODWARDS-ROAD ; 42 HOUSES, HILDICKS BRIDGE, GOSCOTE-LANE.

Separate FIXED PRICE TENDERS are invited for the ERECTION OF THE DWELLINGS to the above 5 contracts.

Bills of Quantities and Forms of Tender can be obtained at any time after the 4th FEBRUARY, 1960, from the undersigned upon payment of a deposit of Two Guineas which will be refunded upon receipt of a bona fide Tender.

Tenders must be sent in a sealed envelope addressed to the Town Clerk, Council House, Walsall, bearing the name of the contract and the number of dwellings and are to be received not later than MID-DAY on THURSDAY, 25th FEBRUARY, 1960.

Any Tender received after the time stated or otherwise than in an envelope endorsed as required, may be rejected.

An envelope suitably addressed and endorsed will be supplied with the form of tender and it is desired that this envelope be used.

The Council do not bind themselves to accept the lowest or any Tender.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
22nd January, 1960.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

EDUCATION DEPARTMENT.

DON VALLEY DIVISIONAL EXECUTIVE.

TENDERS are invited for RENEWAL IN HARDWOOD STRIP FLOORING OF A NUMBER OF CLASSROOM FLOORS at the Askern Sutton-road Schools, Askern, near Doncaster.

Specifications and Forms of Tender are obtainable from the Divisional Education Officer, County Area Offices, Station-road, Doncaster, to whom completed Tenders must be returned by not later than 12 NOON on WEDNESDAY, 10th FEBRUARY, 1960.

CITY OF BIRMINGHAM HOUSING MANAGEMENT DEPARTMENT.

CLEFT CHESTNUT FENCING.

The Housing Management Committee of the Birmingham Corporation invite TENDERS for the SUPPLY AND DELIVERY OF APPROXIMATELY 120,000 YARDS OF 3 FT. CLEFT CHESTNUT FENCING, 12,000 YARDS OF 3 FT. 6 IN. CLEFT CHESTNUT FENCING and 60,000 4 FT. 6 IN. POSTS, to be supplied during the twelve months commencing the 1st April, 1960.

The attention of persons submitting Tenders is drawn to the following points :—

1. Delivery will be required in twelve equal monthly instalments, but deliveries can, if it suits the Supplier, be made in advance.

2. Tenders may be accepted for quantities less than the total amount specified, but such Tenders must be for not less than 20,000 yards of fencing and 6,000 posts.

Forms of Tender can be obtained from the undersigned and should be returned by the 16th FEBRUARY, 1960.

J. P. MACEY,
Housing Manager.

Bush House,
Broad-street,
Birmingham, 1.

BOROUGH OF ACTON.

EDUCATION COMMITTEE.

ANNUAL REDECORATION OF SCHOOLS.

TENDERS are invited for this work.

Contractors wishing to Tender should apply to the Borough Engineer, Town Hall, Acton, W.3, for specifications and schedules, stating the maximum value of the works they can undertake. Work will begin after 1st April, 1960.

Tenders in sealed envelopes, endorsed "Tenders for Redecorations to Schools" should be returned to the Borough Education Officer, Town Hall, Acton, W.3, by 19th FEBRUARY, 1960.

The Committee does not bind itself to accept the lowest or any Tender.

COUNTY BOROUGH OF CROYDON.

TENDERS are invited for a new SCIENCE LABORATORY AND ADAPTATIONS at the John Newnham School, Selsdon Park-road.

Apply for Bills of Quantities, etc., to the Chief Education Officer, Katharine-street, Croydon, with a deposit of £1 returnable on receipt of a bona fide Tender.

Tenders in plain sealed envelopes, endorsed "John Newnham Science Laboratory," must be delivered to me by NOON on TUESDAY, 23rd FEBRUARY, 1960.

E. TABERNER,
Town Clerk.

BOROUGH OF ILFORD.

CONSTRUCTION OF SPORTS PAVILIONS IN VARIOUS PARKS.

TENDERS are invited for the CONSTRUCTION OF SPORTS PAVILIONS in the following parks :

Seven Kings Park, Aldborough-road.
Goodmayes Park, Green-lane.
Goodmayes Park Extension, Goodmayes-lane.

Applications in writing for the Form of Tender, Bills of Quantities and Drawings in respect of either or all of the above projects should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s. for each set of documents, which will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders sealed in the envelope provided endorsed "Tender for Sports Pavilion (insert appropriate name of project)" with no mark of identification as to the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on the 23rd FEBRUARY, 1960.

Priced Bills of Quantities and copies of drawings must be returned at the same time as the Tenders in the special envelopes provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

THURROCK URBAN DISTRICT COUNCIL.

RE-ROOFING COUNCIL HOUSES.

TENDERS are invited from suitable firms for the RE-ROOFING OF 33 HOUSES at Grays.

Tender documents are obtainable from the Estates Manager, Whitehall-lane, Grays, Essex, and should be returned to the Clerk of the Council on or before the 29th FEBRUARY, 1960. The Council does not bind itself to accept the lowest or any tender.

A. E. POOLE,
Clerk of the Council.

Council Offices,
Grays,
Essex.

EASTHAMPSTEAD RURAL DISTRICT COUNCIL.

MODERNISATION OF COUNCIL HOUSES ROEBUCK ESTATE, BINFIELD, BRACKNELL.

TENDERS are invited for the MODERNISATION OF 27 COUNCIL HOUSES at Roebuck Estate, Binfield, Bracknell.

Tender documents may be obtained on written application to the Engineer and Surveyor to the Council, the application to be accompanied by a deposit of £2 2s., returnable on submission of a bona fide tender not subsequently withdrawn. Remittances should be crossed and made payable to Easthampstead Rural District Council.

Tenders in the envelopes provided must be received by the undersigned not later than 12.30 p.m. on MONDAY, the 7th MARCH, 1960.

D. H. M. SAUNDERS,
Clerk of the Council.

BOROUGH OF REIGATE

ONE BLOCK OF 12 FOUR-STOREY MAISONETTES AND ONE BLOCK OF 14 FOUR-STOREY MAISONETTES WITH STORES UNDER, AT THE DOME ESTATE NORTH-STREET, REDHILL.

FIXED PRICE TENDERS invited based upon Bills of Quantities for substructure and site works, and lump sum for superstructure. Form of Tender, Specification, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s. Closing date for receipt of Tenders, NOON, 18th FEBRUARY, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

EAST SUFFOLK COUNTY COUNCIL.

BRADWELL V.C.P. SCHOOL (NR. GREAT YARMOUTH).

The Council propose to invite TENDERS from selected builders, for the SITE WORKS, FOUNDATIONS, SERVICES, ALTERATIONS, ETC., in connection with a prefabricated timber 4 class primary school.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, or at the existing school at Bradwell, between 9 a.m. and 4 p.m.

Building Contractors wishing to Tender should submit their names to the County Architect, County Hall, Ipswich, before the 8th FEBRUARY, 1960. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 15th February, 1960; builders not selected will be notified at the same time. Tenders are required by the 11th March, 1960.

CITY OF NOTTINGHAM

The Corporation of the City of Nottingham invite TENDERS for the CONSTRUCTION OF OUTFALL SEWERS IN TUNNEL from the Bestwood Park Housing Estate, Oxclose-lane, Nottingham.

Tender documents may be obtained from Mr. R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, The Guildhall, Nottingham, on payment of a deposit of £2 0s. 0d., which will be returned on receipt of a bona fide Tender.

The Tender, together with a priced copy of the Bill of Quantities is to be delivered in the official envelope supplied not later than 5 p.m. on WEDNESDAY, the 17th FEBRUARY, 1960.

The lowest or any Tender will not necessarily be accepted, and Tenders will only be considered from firms paying the local standard rate of wages, etc., and who conform to the working rules of the Nottingham district.

T. J. OWEN,
Town Clerk.

Guildhall,
Nottingham.
January, 1960.
QS/HC/J.243A.

HAILSHAM RURAL DISTRICT COUNCIL.

FIXED PRICE TENDERS are to be invited for the ERECTION OF 16 HOUSES AND 4 FLATS at Lepeland, Hellingly.

Contractors wishing to submit a Tender should make application to be received before the 4th FEBRUARY, 1960, to be considered for inclusion in a selected list of Contractors, giving evidence of previous contracts of similar nature.

A. CARR,
Clerk to the Council.

Cortlandt,
Hailsham,
Sussex.

COUNTY BOROUGH OF MERTHYR TYDFIL.

ANNUAL TENDERS FOR SUPPLIES: 1960-1961.

TENDERS are invited for the SUPPLY AND DELIVERY of the undermentioned requirements for the twelve months commencing 1st APRIL, 1960:

1. IRONMONGERY.
2. ROAD MACADAM.
3. CRUSHED STONE / SLAG AGGREGATES.
4. PRE-CAST CONCRETE PRODUCTS.
5. GENERAL BUILDERS' STORES.
6. CLEANING MATERIALS.
7. BRUSHES.
8. ELECTRICAL GOODS.
9. IRON CASTINGS.
10. GLAZED STONEWARE PRODUCTS.
11. SLAG BALLAST.
12. GRITTING MATERIALS.
13. NATURAL STONE PRODUCTS.
14. READY MIXED CONCRETE.

Documents will be available to bona fide Merchants, Manufacturers, and other suppliers on application to the Borough Engineer and Surveyor, Town Hall, Merthyr Tydfil, Glam.

Applicants must state which of the goods they wish to tender for, and tenders must be sent in a sealed envelope endorsed "Tenders for ——," but bearing no mark or name indicating the sender, to the undersigned not later than first post on SATURDAY, 20th FEBRUARY, 1960.

The Council reserve the right to accept tenders in whole or in part, but do not bind themselves to accept the lowest or any tender.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil,
Glam.
18th January, 1960.

CITY OF WINCHESTER.

WINNALL MANOR ESTATE: CONTRACT 6.

The City Council invites TENDERS for the ERECTION OF 44 DWELLINGS on this Estate. Applications to tender should be submitted to Messrs. A. S. Wilson & Partners, Chartered Quantity Surveyors, 8 Storey's-gate, Westminster, S.W.1, by THURSDAY, 11th FEBRUARY, 1960, enclosing cheque for £2 2s. payable to Winchester Corporation, which will be refunded on receipt of a bona fide Tender and the return of the documents.

The Bills of Quantity and Form of Tender will be sent to the applicant as soon as the documents become available.

The City Council do not bind themselves to accept the lowest or any Tender.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
4th January, 1960.

BOROUGH OF GRAVESEND.

QUEEN STREET—THE TERRACE REDEVELOPMENT: ERECTION OF 56 FLATS IN 4 STOREYS.

TENDERS will be invited during February for the ERECTION OF 56 FLATS on a site at the junction of Queen-street and The Terrace, Gravesend.

It is anticipated that erection will commence during May.

Contractors desirous of tendering are requested to submit their applications for tender documents to the undersigned not later than the 8th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

F. W. HARRISON,
Town Clerk.

Municipal Offices,
Woodville-terrace,
Gravesend.

CITY OF WORCESTER.

"HILLBOROUGH" HOME FOR THE AGED, TALLOW HILL, WORCESTER.

PROVISION OF ADDITIONAL SANITARY ACCOMMODATION.

TENDERS are invited for the above work which comprises TWO THREE-STOREY BLOCKS with a total floor area of approximately 1,900 ft. sup., together with other minor alterations.

Documents obtainable from City Engineer and Surveyor, 22 Bridge-street, Worcester, on deposit of Three Guineas (cheques payable to "Worcester Corporation") which will be refunded after receipt of a bona fide tender and the return of tender documents.

Tenders to be posted to the undersigned to arrive not later than MONDAY, 29th FEBRUARY, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

ANGLESEY EDUCATION COMMITTEE.

DAVID HUGHES NEW COMPREHENSIVE SCHOOL, MENAI BRIDGE.

TENDERS are invited for the SUPPLY AND DELIVERY OF SCHOOL FURNITURE AND EQUIPMENT required for the first instalment of the above new school which is to be opened shortly.

Firms should submit their names to the County Architect, Shire Hall, Llangefni, Anglesey by not later than WEDNESDAY, 10th FEBRUARY, 1960.

The Committee does not bind itself to accept the lowest or any tender.

D. JONES-DAVIES,
Director of Education.

Education Offices,
Llangefni.
20th January, 1960.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for the ALTERATIONS AND EXTENSIONS TO THE COUNTY POLICE STATION, Doncaster-road, Dalton, Nr. Rotherham.

Applications to tender must be addressed to the Divisional Architect, Planet-Road, Adwick-le-Street, Nr. Doncaster, and received not later than FRIDAY, 12th FEBRUARY, 1960.

The Contract will be in accordance with the R.I.B.A. Form of Agreement.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 46, County Hall, Wakefield, not later than 12 NOON on FRIDAY, 4th MARCH, 1960.

BERNARD KENYON,
Clerk of the County Council.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION of an ASSEMBLY HALL (approximate area 3,075 ft. super) at the Institute of Agriculture, Bishop Burton, near Beverley.

Application for Bills of Quantities, which it is anticipated will be available on the 9th February, 1960, should be made to the County Architect, County Hall, Beverley, and should be accompanied by a deposit of £2 0s. 0d. Cheques to be made payable to the County Treasurer.

No tender will be considered unless received by the undersigned not later than 4.0 p.m. on TUESDAY, 1st MARCH, 1960, in a plain sealed envelope supplied by the Council, endorsed "Tender: Institute of Agriculture, Erection of Assembly Hall," and which shall not bear any name or mark indicating the sender.

THOMAS STEPHENSON,
Clerk of the Council.

BOROUGH OF TWICKENHAM.

TENDERS are invited for the ERECTION OF A CRICKET PAVILION WITH PUBLIC LAVATORY, ETC., ATTACHED, at Murray Park, Whitton, Middlesex. Contractors desiring to be considered for inclusion in the list of tenderers should forward their names and addresses to the Borough Engineer, Municipal Offices, Twickenham. Applications must be received by MONDAY, 8th FEBRUARY, 1960. The selected Contractors will be informed and on receipt of a deposit of £2 2s., will be forwarded the drawings and specification. The Corporation do not bind themselves to accept the lowest or any tender.

W. H. JONES,
Town Clerk.

CITY AND COUNTY OF BRISTOL.

TO BUILDING CONTRACTORS.

Libraries Committee invite TENDERS for ERECTION OF BRANCH LIBRARY (approx. 3,700 sq. ft.) at Southmead, Bristol.

Contractors willing to submit FIXED PRICE TENDER apply to City Architect, Council House, Bristol, 1, by 5th FEBRUARY. Bills of Quantities, etc., will be issued shortly after.

AMENDED ADVERTISEMENT.

CITY OF ROCHESTER.

WARREN WOOD RE-DEVELOPMENT —STAGE IV.

26 THREE-BEDROOM HOUSES AND 12 FLATS.

TENDERS are invited for the ERECTION OF THE ABOVE DWELLINGS. Conditions of contract, bills of quantities and form of tender will be forwarded on payment of £3 3s., at the office of J. A. Peel, Esq., A.M.I.C.E., A.M.I.Mun.E., the City Surveyor, 66 Maidstone-road, Rochester.

The deposits will be returned on receipt of bona fide Tender or on the notification of inability to tender, together with the return of the documents.

This Tender is to be submitted on a FIXED PRICE BASIS only.

Tenders should be enclosed in the suitably endorsed envelope provided and documents returned in another endorsed envelope.

Tenders must be sealed and delivered to the Town Clerk, Guildhall, Rochester, not later than 12 NOON on MONDAY, 7th MARCH, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
23rd January, 1960.

CITY OF PLYMOUTH.

The Council is prepared to receive the names of firms interested in TENDERING for certain materials, etc., required in connection with the ERECTION OF TRADITIONAL HOUSES AND FLATS by direct labour.

The materials, etc., include the following:—

COPPER TUBE AND FITTINGS.
TIMBER.
COMBINATION TANKS.
RECONSTRUCTED STONE FIREPLACES.
SHEET LEAD.
PLASTER LATH.
PLASTER.
ROOF TILING (CONCRETE) COMPLETE.
PITCHMASTIC FLOORING.
PRECAST CONCRETE UNITS.
SANITARY FITTINGS.
SALT GLAZED WARE.
ASBESTOS RAIN WATER GOODS
CAST IRON SOIL AND VENT PIPES.

Particulars can be obtained from the City Engineer, Guildhall, Plymouth.

Pointing the way...

TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

REX

A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. *Illustrated literature and prices on request*

BLAW KNOX LIMITED Box No 113
90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

BK 579

BARNET URBAN DISTRICT COUNCIL.

BARNET PLAYING FIELDS SPORTS PAVILION, GRASVENOR-AVENUE, BARNET.

TENDERS are invited for the installation of CONCRETE FOOTBATHS, SHOWERS and OTHER WORKS at the Council's Sports Pavilion, Grasvenor-avenue, Barnet.

The conditions of contract, Drawings and Specification, may be obtained by application to the Engineer and Surveyor, Ravenscroft House, Wood-street, Barnet.

Tenders must be delivered to the Clerk of the Council, Municipal Offices, Wood-street, Barnet, Herts, by 12 NOON on WEDNESDAY, the 20th FEBRUARY, 1960, in sealed envelopes and endorsed "Barnet Playing Fields Sports Pavilion."

The Council do not bind themselves to accept the lowest or any Tender.

ALFRED S. MAYS.
Clerk of the Council.

Municipal Offices,
Wood-street,
Barnet.

ROYAL BOROUGH OF KINGSTON UPON THAMES.

A PAIR OF THREE-BEDROOM SEMI-DETACHED HOUSES, VILLIERS-ROAD, KINGSTON UPON THAMES.

The Corporation invite contractors wishing to TENDER for the above contract to make application, on or before 5th FEBRUARY, 1960. Contractors selected to Tender will be required to deposit £2 2s. 0d. prior to the forwarding of Tender documents, returnable on receipt of a bona fide Tender. The contract will be on a fixed price basis.

The Corporation do not bind themselves to accept the lowest or any Tender.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston upon Thames.
January, 1960.

COUNTY COUNCIL OF ESSEX.

(1) NURSE'S HOUSE, Manuden.
(2) Hostel for Elderly Persons, Grosvenor House, Westcliff-on-Sea. ALTERATIONS AND INSTALLATION OF LIFT.
(3) Buckhurst Hill. AMBULANCE STATION.

Contractors wishing to submit firm price TENDERS for the above should forward their names, from which panels will be chosen and provided with Tender documents.

(1) In traditional construction, estimated cost £2,400.
(2) Alterations and installation of lift. The lift will be supplied by a sub-contractor, already nominated, estimated cost of whole contract £3,200.
(3) Combined steel frame and load bearing brick construction, estimated cost £34,000.

Separate applications for each contract to reach the undersigned not later than 6th FEBRUARY, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

SOMERSET COUNTY COUNCIL.

EDUCATION COMMITTEE.

Applications are invited from Building Contractors wishing to submit a fixed price TENDER for the ERECTION of: STREET SECONDARY MODERN SCHOOL (632 Cost Places) and AREA COLLEGE.

The approximate total area of the project is 77,000 feet super and the contract period will be 24 months.

Applications should be submitted to the undersigned not later than WEDNESDAY, 3rd FEBRUARY, 1960, and should contain an assurance that the applicant has the necessary financial and material resources and organisation to complete a contract of this size within the time stated.

The Committee reserves the right to select from the applicants a list of firms who will be invited to submit Tenders, and does not bind itself to accept the lowest or any Tender.

A deposit of £2 2s. 0d. will be required from those firms selected which will be returned upon receipt of a bona fide Tender or the return of the Bill of Quantities.

No Tender will be considered unless submitted in the endorsed envelope which will be provided.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

The Crescent,
Taunton.

BOROUGH OF EALING.

CONSTRUCTION OF BOUNDARY WALLS.

NORTHOLT PARK ESTATE.

Forms of tender and specification, etc., can be obtained from the Borough Surveyor on payment of £2.

Tenders to be delivered to the Town Clerk, Town Hall, Ealing, W.5, not later than 12 noon 25th FEBRUARY, 1960.

BOROUGH OF REIGATE.

CONVERSION OF WHITEPOST HOUSE, WHITEPOST HILL, REDHILL, INTO 12 FLATLETS FOR OLD PEOPLE.

FIXED PRICE TENDERS invited based on drawings and specification.

Form of Tender, Specification and plans obtainable from Borough Surveyor, Town Hall, Reigate.

Closing date for receipt of Tenders 22nd FEBRUARY, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall, Reigate.
January, 1960.

COUNTY BOROUGH OF BRIGHTON.

Fixed price TENDERS are invited for the ERECTION OF NEW PAVILION FOR ROTTINGDEAN MINIATURE GOLF COURSE.

Bills of Quantities and Form of Tender may be obtained from the Borough Surveyor, Engineer and Planning Officer, 26-30 King's-road, Brighton, on or after Friday, 29th January, 1960, on receipt of a returnable deposit of £2 2s. 0d.

Drawings may be inspected upon application to the Borough Surveyor's Office.

Tenders are to be delivered to the Town Clerk in the envelope provided, not bearing any name or mark indicating the sender, by NOON on SATURDAY, 27th FEBRUARY, 1960.

W. O. DODD,
Town Clerk.

CITY OF OXFORD.

OLD PEOPLE'S HOSTEL, CUTTESLOWE

CHILD WELFARE CLINIC, COWLEY.

NORTH OXFORD BRANCH LIBRARY AND CHILD WELFARE CLINIC.

The City Council intends to carry out the above schemes. The first is a hostel for sixty old people in two- and three-storey traditional construction; the second and third are single-storey buildings.

Tendering will be on a firm price basis and documents will be available about 12th FEBRUARY, 1960.

Contractors wishing to be considered for inclusion in the list of tenderers should submit their names to the City Architect and Planning Officer, Town Hall, Oxford, before 5th FEBRUARY, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

CITY OF PORTSMOUTH.

TENDERS are invited for:
(a) 78 HOUSES, Prospect Farm.
(b) 3 SHOPS, 3 MAISONETTES AND 5 HOUSES, Paulsgrove.
(c) 60 TRADITIONAL GARAGES, Paulsgrove.
(d) 1 HOUSE, Fawcett-road.

Contractors desirous of tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, not later than the 10th FEBRUARY, 1960, stating in which Contract(s) they are interested, and enclosing a deposit of £1 for each Contract returnable on receipt of bona fide tender(s) or the return of all the documents within three days.

The Council do not bind themselves to accept the lowest or any tender. It is a condition of tendering that the Contractor shall at the date of his tender have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

LEEDS REGIONAL HOSPITAL BOARD.

TO HEATING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out IMPROVEMENTS TO HEATING AND H.W.S. IN THE ADMISSION UNIT AND 2 VILLAS at Menston Hospital, Nr. Leeds.

Applications for Form of Tender and Specification and Drawings accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide Tender and other contract document(s) must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on WEDNESDAY, 10th FEBRUARY, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board, or at the office of Messrs. E. Griffiths and Son, Consultant Engineers, Kinders, Bromborough, Cheshire.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 NOON on WEDNESDAY, 9th MARCH, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorkshire.

PUBLIC APPOINTMENTS

BOROUGH OF LUTON.

Applications invited for:—
(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. IV (£1,065-£1,220).
(b) ARCHITECTURAL ASSISTANTS, A.P.T. I/Special (£610-£1,070).
(c) HEATING ENGINEERING ASSISTANT, A.P.T. III (£880-£1,065).

Applicants for posts (a) must be A.R.I.B.A. and should have had considerable practical experience.

The grade and commencing salary for (b) will be within the range stated according to experience and qualifications.

The Corporation is undertaking a considerable development programme of varied and interesting work including Public Library, Baths Establishment, Cleansing and Transport Depots, Schools and other civic schemes.

Consideration will be given to the provision of housing accommodation and payment of removal expenses in approved cases.

Application forms from Borough Architect, Town Hall, Luton, returnable by 15th FEBRUARY, 1960.

MIDDLESEX COUNTY COUNCIL.

QUANTITY SURVEYORS Required Quantity Surveying Division of the County Architect's Department:—

(a) SENIOR TAKER-OFF, J.N.C.A., £1,210-£1,390, with not less than five years' experience subsequent to obtaining R.I.C.S. qualification. Responsibility for preparation of bills of quantities.
(b) TAKER-OFF, A.P.T. V, £1,220-£1,375, R.I.C.S. qualification, for duties in connection with preparation of bills of quantities.
(c) WORKER-UP, A.P.T. II, £765-£880, preferably at Inter. R.I.C.S. stage, for duties relating to bills of quantities and final accounts.
(d) COST PLANNING ASSISTANT, A.P.T. V, £1,220-£1,375, with R.I.C.S. qualification, for analysis of bills of quantities, preparation of detailed estimates and general cost research.
(e) ESTIMATING ASSISTANT, A.P.T. III, £880-£1,065, for preparation of estimates from preliminary and detailed drawings.
(f) ACCOUNTS SURVEYOR, A.P.T. III, £880-£1,065, for preparation and checking of Contractors' accounts and interim certificates.

All posts: London Weighting up to £30 p.a. payable in addition, established. Prescribed conditions.

Application forms from County Architect, 1 Queen Anne's Gate Buildings, Dartmouth-street, S.W.1 (stamped addressed foolscape envelope), returnable immediately. (Quote B. 791B.)

COUNTY BOROUGH OF EAST HAM.

HOUSING DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited. Salary Grade A.P.T. II (£765 x £25 (1) x £30 (3) — £880 per annum, plus London Weighting).

Applicants should be experienced in the design, construction and supervision of the erection of housing schemes.

Further details and application form (returnable by 10th FEBRUARY, 1960) from the Town Clerk, Town Hall, East Ham, E.6.

ASSISTANT ARCHITECTS

required with experience in design and construction of multi-storey housing, shops, garages, baths and wash-houses, depots, etc. Salary scale £785 to £1,070 per annum and £880 to £1,065 per annum plus "Weighting" of £30 (£10 less if under 26 years). Commencing salary according to qualifications and experience. Five-day week. (Saturday morning rota one on in seven.) Canteen available. Application forms obtainable from Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3, for return by first post MONDAY, 15th FEBRUARY, 1960.

COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT'S AND PLANNING OFFICER'S DEPARTMENT.

APPOINTMENT OF CLERK OF WORKS.

Applications invited for above appointment within A.P.T. Grade II—£765-£880 p.a. (according to experience), plus London Allowance.

Applicants should have had good experience on large contracts, preferably on Housing, Educational, and Public Buildings.

Application forms (returnable by 8th FEBRUARY, 1960) obtainable from Borough Architect and Planning Officer, 70 West Ham-lane, E.15.

SOUTHAMPTON COUNTY BOROUGH COUNCIL

Requires under N.J.C. conditions of service:

ASSISTANT QUANTITY SURVEYOR, salary within the Special Grade, £785-£1,070. Applicants must be chartered quantity surveyors, preferably with experience in municipal housing including multi-storey flats and shopping centres.

Consideration will be given, if necessary, to the provision of housing accommodation.

Apply on application forms, obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, by MONDAY, 8th FEBRUARY, 1960.

BOROUGH OF WREXHAM.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) Two ENGINEERING ASSISTANTS, Salary Range Specialist Grade (£785-£1,070 per annum).

Candidates should have passed the appropriate examinations of the Institute of Civil or Municipal Engineers or equivalent and have a general experience of Municipal Engineering.

(b) Two ARCHITECTURAL ASSISTANTS, Salary Range Specialist Grade (£785-£1,070 per annum).

Candidates should have passed appropriate examinations of the R.I.B.A. or equivalent and have general experience of Architectural work.

Casual car user allowance payable on authority of the Borough Engineer.

Housing accommodation supplied, if required.

Forms of application and particulars of works in hand may be obtained from the Borough Engineer and Surveyor, 31 Chester-street, Wrexham, and applications stating age, experience, qualifications, etc., and the names of two referees, to be sent to the undersigned by not later than the 5th day of FEBRUARY, 1960.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
11th January, 1960.

CARDIGANSHIRE COUNTY COUNCIL.

Applications are invited for the undermentioned vacancies in the County Architect's Department, County Hall, Aberayron:—

(a) ASSISTANT ARCHITECT (Special Grade, £785-£1,070).
(b) ARCHITECTURAL ASSISTANT on the Salary Grade from £210 to £655, starting salary according to age and experience. For an applicant with R.I.B.A. Intermediate the salary grade will be £610-£765.

Applicants for (a) must be Associate Members of the Royal Institute of British Architects, with experience.

Forms of application and further details obtainable from the County Architect.

Applications to be returned to the undersigned by not later than 29th FEBRUARY, 1960.

J. E. R. CARSON,
Clerk of the Cardiganshire County Council.

Swyddfa'r Sir,
Marine-terrace,
Aberystwyth,
Cards.
22nd January, 1960.

LONDON ELECTRICITY BOARD

Architectural Draughtsman

Applications are invited for the position of Architectural Draughtsman in the Architect's Section of the Board.

Applicants should be neat draughtsmen and have had experience in an Architect's office. Preference will be given to those who are taking a recognised course of study with a view to obtaining architectural qualifications.

The post is graded under Schedule 'D' of the National Joint Board Agreement as Grade 6 (£660 to £780 per annum, inclusive of London Allowance.)

Application form obtainable from Personnel Officer, 46, New Broad Street, London, E.C.2, to be returned completed within fourteen days of the publication date of this advertisement. Please quote ref:—PER/V/2721/B.

SOUTH EASTERN ELECTRICITY BOARD.

ARCHITECTURAL ASSISTANT—SURVEYOR'S SECTION, BOARD HEADQUARTERS.

Annual salary £795-£870 under N.J.C. Grade 4. Applicants should have experience in the preparation of working and detail drawings for offices, stores, workshops, garages, showrooms and electricity substations and be at Intermediate level of an appropriate professional body. Superannuable. Applications, quoting BLDR and naming 2 referees, to the Surveyor, Seaboard, 10 Queen's-gardens, Hove 3, Sussex, by 17th FEBRUARY, 1960.

GEORGE WRAY,
Secretary.

HEREFORDSHIRE COUNTY COUNCIL.

SENIOR ASSISTANT ARCHITECT Required on A.P.T. IV (£1,065 to £1,220 per annum). Must be A.R.I.B.A. Interesting and varied programme. Five-day week.

Superannuated post, subject to medical examination, and one month's notice either side. Travel and subsistence payable to married men in certain cases for limited period.

Application forms from County Architect, Bath-street, Hereford, to be submitted by 11th FEBRUARY, 1960.

Hereford is situated in the beautiful Wye Valley.

PADDINGTON BOROUGH COUNCIL.

ASSISTANT ARCHITECT (£815-£1,100).

Starting salary according to qualifications and experience of the successful candidate who should preferably be A.R.I.B.A., with experience in the design and supervision of building works of some magnitude and a knowledge of local authority requirements. Applications should state age, qualifications, present and past appointments with dates, names and addresses of three referees. Applications should reach me by 8th FEBRUARY, 1960 (quoting A.450).

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington-green, W.2.

BOROUGH OF WORTHING.

BOROUGH ENGINEER'S DEPARTMENT.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. I of the National Joint Council's scale of Salaries, i.e. £610-£765 per annum.

Candidates must have had experience with a Local Authority in the examination of deposited building plans, inspection of works and the interpretation of the Bye-laws.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the provisions of the Local Government Superannuation Acts, and to the successful candidate passing satisfactorily a medical examination. The appointment will be terminable by one month's notice on either side.

Applications, endorsed, "Assistant Building Inspector" stating age, qualifications, experience, present and past appointments, with dates, and accompanied by copies of three recent testimonials, should be sent to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than MONDAY, 8th FEBRUARY, 1960.

ERNEST G. TOWNSEND,
Town Clerk.

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent posts:

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065-£1,220).

(b) SENIOR ASSISTANT ARCHITECT, Special Grade (£785-£1,070).

Experience in School major projects an advantage.

(c) ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765).

(d) SENIOR QUANTITY SURVEYOR, Special Grade (£785-£1,070).

Applicants should possess appropriate qualifications and should state their housing needs and commencing salary required.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 13th FEBRUARY, 1960.

LONDON COUNTY COUNCIL.

BUILDING SITE SUPERVISORS

Required for erection of houses and blocks of flats by direct employment of labour. Wide experience of supervision on traditional building work and reinforced concrete construction as applied to multi-storey flats.

Salary according to qualifications and experience. Bonus on results may be earned in addition. Apply, stating age, brief details of experience and qualifications, enclosing S.A.E., to Director of Housing, G/TSS, 1 County Hall, S.E.1. (118)

METROPOLITAN BOROUGH OF SHOREDITCH.

The Council have in hand a varied and interesting programme of engineering works, and applications are invited for the FOLLOWING APPOINTMENTS:—

(a) SENIOR ENGINEERING ASSISTANT, salary A.P.T. V (£1,220-£1,375) plus London Weighting.

(b) SURVEYING ASSISTANT, salary A.P.T. IV (£1,065-£1,220) plus London Weighting.

Subject to medical examination, Council's Superannuation Scheme and N.J.C. Conditions.

Candidates for appointment (a) must be Corporate Members of the Institution of Civil Engineers or Municipal Engineers, and have had considerable experience in Municipal Engineering. A qualification in Surveying would be an advantage for post (b).

Applications stating age, training and experience and giving the names of two referees to reach Borough Engineer, Town Hall, Old Street, E.C.1, by 13th FEBRUARY, 1960.

BOROUGH OF RAMSGATE.

TEMPORARY QUANTITY SURVEYING ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with A.P.T. Grade I (£610-£765).

Candidates should have experience in all types of work, measurements of variation and settlement of final accounts. The appointment will be for a minimum of twelve months.

Applications endorsed "Quantity Surveying Assistant," giving details of qualifications, experience and the names and addresses of two referees, must be received by the Borough Engineer, Municipal Buildings, by not later than FRIDAY, 19th FEBRUARY, 1960.

Candidates must disclose whether or not they are related to any member of, or the holder of any senior office under the Council. Canvassing will disqualify.

K. F. SPEAKMAN,
Town Clerk.

Municipal Buildings,
19th January, 1960.

AIR MINISTRY Requires in CENTRAL LONDON and PROVINCES, LANDS TECHNICAL ASSISTANTS with general experience in Estate Agents and Surveyors Office, some posts require Field Survey experience. Salary scale for Grade III in LONDON from £585 to £900 p.a. Somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Also vacancies in lower grade IV on scale from £455 to £772 p.a. No upper age limit for Central London vacancies. 5-day week. 18 working days' paid leave a year initially plus Bank Holidays. Promotion prospects up to Grade I (maximum salary in London £1,300). Pension prospects. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.d., Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange (quoting Kings Cross 3750) giving age, details of training and qualifications. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

COUNTY BOROUGH OF BOLTON.

HOUSING DEPARTMENT.

Applications invited for appointment of QUANTITY SURVEYOR. Salary A.P.T. II (£765-£880). Applicants should be capable of Taking-off and billing quantities, measuring on site, adjusting variations in contracts and preparing estimates for flats and houses. The post is superannuable subject to medical examination.

Applications, stating age, qualifications, details of experience and naming two referees, to be received by me by 15th FEBRUARY.

PHILIP S. RENNISON,
Town Clerk.

Town Hall, Bolton.

ARCHITECTS AND BUILDING SURVEYORS.

Vacancies in Architect's Department London County Council, for ARCHITECTS OR BUILDING SURVEYORS experienced in surveying existing buildings, preparing sketch schemes, working drawings and specifications and supervising works in progress, for the complete internal replanning and modernisation of the older blocks of Council flats (jobs up to £50,000).

Applicants should have initiative, a real interest in this type of work and the ability to act on their own judgment since the maximum opportunity will be afforded for each to carry his own job through from survey to completion. Salaries ranging from £700-£1,135. Promotion by merit.

Application form from Hubert Bennett, F.R.I.B.A., the Architect to the Council (EK/L07/59), County Hall, S.E.1. (2399.)

COUNTY OF ESSEX.

BOROUGH OF WALTHAMSTOW.

COMMITTEE FOR EDUCATION.

Applications are invited for the post of SENIOR ASSISTANT ARCHITECT in the Office of the Education Architect. Mr. T. L. Rampton, A.R.I.B.A., A.R.I.C.S.

Salary in accordance with A.P.T. Grade IV, £1,065 to £1,220 per annum plus £30 London Weighting.

Applicants must be Associate Members of the R.I.B.A.

Experience in design and construction of schools and contract administration an advantage.

Forms of application to be obtained from and returned to the Borough Education Officer, Town Hall, Forest-road, Walthamstow, E.17, within TWO WEEKS of the appearance of this notice.

BUILDINGS SURVEYORS.

ARCHITECT'S DEPARTMENT L.C.C. has vacancies in Building Regulation Division and District Surveyor's Service for work in connection with applications under London Building Acts and byelaws. District Surveyor's offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,135, commencing according to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/111/59, County Hall, S.E.1. (2628.)

METROPOLITAN BOROUGH OF BATTERSEA.

Applications are invited for the appointment of ESTIMATING ASSISTANT (A.P.T. III, £880-£1,065 per annum, plus London Weighting).

Candidates should possess a sound knowledge of building construction and be experienced in the preparation of estimates for general building and maintenance works. They must possess a Higher National Certificate in Building (or equivalent) with a minimum of five years' experience as an estimator.

Application forms from the Borough Engineer and Surveyor, Town Hall, S.W.11. Closing date 17th FEBRUARY, 1960.

METROPOLITAN BOROUGH OF BATTERSEA.

Applications are invited for the following permanent appointments:—

(i) ASSISTANT ARCHITECT — A.P.T. Grade III, £880-£1,065 per annum.

(ii) ARCHITECTURAL ASSISTANT —A.P.T. Grade I, £610-£765 per annum.

London Weighting £10-£30 per annum according to age, also payable.

For appointment (i) applicants should be registered architects or have passed the final R.I.B.A. Examination and have had several years' thorough office experience. Previous Local Government experience is not essential. The commencing salary will be according to qualifications and experience.

Further particulars and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, S.W.11. Closing date 17th FEBRUARY, 1960.

FRIERN BARNET URBAN DISTRICT COUNCIL.

APPOINTMENT OF JUNIOR TECHNICAL ASSISTANT (BUILDING).

Applications are invited for the above permanent appointment on Grade A.P.T. I (£610 to £765) plus £10 to £30 London Weighting (according to age) in connection with the preparation of schemes for new housing development. Preference will be given to candidates who have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors (Building).

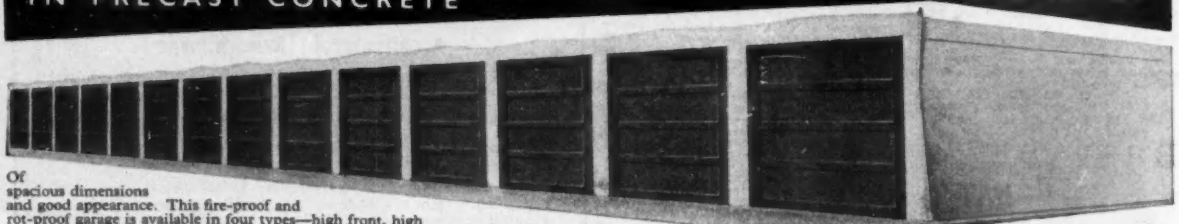
Applications, stating age, experience, qualifications, details of present and previous appointments, with the names of two referees, to be sent to the Engineer and Surveyor, Town Hall, Friern Barnet, N.11, by SATURDAY, 6th FEBRUARY, 1960.

R. S. CLOTHIER,
Clerk of the Council.

HAVANT AND WATERLOO URBAN DISTRICT COUNCIL

invite applications for the appointment of DRAUGHTSMAN (either Civil Engineering or Architectural). Salary Scale Miscellaneous Division Grade V (£650-£715 per annum).—Applications and further particulars obtainable from the Engineer and Surveyor, 1 Park-road North, Havant, to be completed and returned by 20th FEBRUARY, 1960.

MARLEY MULTIPLE GARAGES
IN PRECAST CONCRETE



Of spacious dimensions and good appearance. This fire-proof and rot-proof garage is available in four types—high front, high back, back-to-back and stepped with Marley up-and-over or traditional timber doors. Low initial cost. Virtually maintenance free. *Marley will supply and deliver only or supply and erect. Installed for hundreds of Local Authorities.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.

MARLEY CONCRETE LIMITED Dept. 799 Peasmarsh, Guildford, Surrey (Head Office) Guildford 62986. Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 626. London Showrooms: 251 Tottenham Court Road, W.1.

COUNTY BOROUGH OF WEST BROMWICH.

Applications are invited for the following permanent appointments:—

(a) ASSISTANT ARCHITECT, salary grade A.P.T. IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANT, salary grade A.P.T. II (£765-£880).

(c) ARCHITECTURAL ASSISTANT, salary grade A.P.T. I (£610-£765).

Applicants for post (a) should be A.R.I.B.A. and for post (b) should have passed the Intermediate Examination of the R.I.B.A.

N.J.C. Conditions of Service.

Applications naming two referees to the undersigned by 1st FEBRUARY, 1960.

W. H. GREENWOOD.
Borough Engineer and Surveyor.
Town Hall.
West Bromwich.

BOROUGH OF SOUTHALL.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above APPOINTMENT on the Permanent Staff of the Corporation.

Salary in accordance with the Special Grade (£785-£1,070), plus London Weighting.

Candidates should have passed the final examination of the Royal Institute of British Architects or an equivalent and have had at least five years' practical experience of design and construction.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, Town Hall, Southall, must be returned to him on or before MONDAY, 8th FEBRUARY, 1960.

J. S. SYRETT,
Town Clerk.

ORPINGTON URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT in the Engineer and Surveyor's Department at a salary in accordance with A.P.T. Grade II (£765-£880 per annum) plus London Weighting allowance.

The person appointed will have an opportunity to assist in the Council's large Capital Programme in hand and envisaged. Further details and the general conditions of appointment may be obtained from, and completed applications should be sent to, the Engineer and Surveyor, Civic Offices, The Walnuts, High-street, Orpington, Kent, by SATURDAY, 13th FEBRUARY, 1960.

Housing accommodation will be considered.

L. W. FREEMAN,
Engineer and Surveyor.
21st January, 1960.

NOTTINGHAM AND DISTRICT TECHNICAL COLLEGE, BURTON-STREET, NOTTINGHAM.

Principal: D. A. R. Clark, M.Sc.(Tech.), M.I.Mech.E.

Applications are invited for the following full-time RESEARCH ASSOCIATESHIP: BUILDING AND CIVIL ENGINEERING DEPARTMENT. Applicants should have an interest in research on civil, municipal or structural engineering topics, including soil mechanics, or general building subjects such as timber development work, or cost research and analysis, or architectural research on the technological side, particularly the development of methods of acoustic investigation.

The salary for the above post is as follows: £650 x £50-£750 per annum.

Further particulars and form of application may be obtained from the Principal, to whom completed forms should be returned not later than 29th FEBRUARY, 1960.

NOTTINGHAMSHIRE COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.

A.P.T. SPECIAL SCALE.

Applications are invited from students who have passed the final examination of the R.I.B.A. or the Diploma examination of a recognised school or from qualified architects to work on the County Council's major building programmes. These programmes are handled by four groups of approximately eight architects per group, under a Group-leader. All the architects in the group carry out in turn the design, organisation, and supervision of projects as Job Architects through all stages of the job, from sketch plan to completion. As part of carrying out the County Council's building programme, the office has a policy of continuous development in planning and construction, on which all architects take part from time to time. The salary ranges from £785 to £1,070; commencing salary to be offered will be in accordance with ability and experience. Starting date by agreement.

Forms of application may be obtained from the County Architect, County Hall, West Bridgford, Nottingham, to whom they should be returned as soon as possible.

A. R. DAVIS,
Clerk of the County Council.

BLACKPOOL AND FYLDE HOSPITAL MANAGEMENT COMMITTEE.

SECOND WORKS ASSISTANT TO THE SUPERINTENDENT ENGINEER.

Applications are invited for this Superannuable post from persons having a knowledge of the Building Trades.

The duties include making drawings and tracings for Minor Works, taking measurements and making calculations. Assisting in the preparation of Specifications and Estimates, keeping records and general office duties.

Possession of Higher or Ordinary National Certificate would be an advantage.

The commencing salary is £415 (age 21) to £525 per annum, according to age, rising by annual increments to £625 per annum.

Applications stating age, qualifications and experience, together with the names of two people for reference, should be submitted to the Group Secretary, Victoria Hospital, Blackpool, no later than SATURDAY, 6th FEBRUARY, 1960.

EAST SUFFOLK COUNTY COUNCIL.

ASSISTANT ARCHITECT—
A.P.T. Grade III (£880-£1,065).

Applications are invited for the above appointment which offers interesting and responsible work in connection with the Council's extensive programme of school and other building.

The starting salary will be fixed according to qualifications and experience; removal expenses will be paid in approved cases and the appointment will be subject to the provisions of the Superannuation Acts.

Applications stating age, qualifications, experience and present employment, together with the names of two referees, must be delivered to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, by TUESDAY, the 9th FEBRUARY, 1960.

COUNTY BOROUGH OF BIRKENHEAD.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the established posts of four PRINCIPAL ASSISTANTS, Grade A.P.T. IV (£1,065-£1,220). Applicants must be qualified and have a good general experience in design and construction and capable of taking charge of large projects with a minimum of supervision. Salaries commensurate with qualifications and experience. The posts offer interesting and responsible work in connection with the Council's extensive programme of Schools and other major building schemes. Forms of application and further particulars from Borough Architect's Department, 3 Conway-street, Birkenhead. Closing date for applications 13th FEBRUARY, 1960. Relationship to Members or Senior Officers of the Council must be disclosed.

ROYAL COUNTY OF BERKSHIRE.

Those who are studying for the Final Examinations of the R.I.B.A. are invited to apply for a post in the Architect's Department as

ARCHITECTURAL ASSISTANT,
A.P.T. Grade II (£765-£880).

Opportunities for obtaining a good general experience exist in this expanding County, and in particular work is now in hand on new Police Divisional Headquarters, Courts and Colleges of Further Education.

One day per week will be allowed for study at a recognised school of architecture.

There is a number of staff houses and flats, some of which become available from time to time and assistance up to 75 per cent. is given with removal expenses.

Application forms and particulars of the Department can be obtained from J. T. Castle, A.R.I.B.A., A.M.T.P.I., Wilton House, Parkside-road, Reading, to whom they should be returned not later than TUESDAY, 9th FEBRUARY, 1960.

GOVERNMENT OF NORTHERN IRELAND.

CLERK OF WORKS FOR LARGE OFFICE BLOCK.

Applications invited from top grade men for post at New Office Block, Stormont, Belfast. Candidates must have considerable experience as principal Clerk of Works on large multi-storey buildings having reinforced concrete foundations and framework and good-class finishes and services. Post will be temporary but is expected to last for about two and a half years. Salary fixed within the range £1,000-£1,200 depending on qualifications and experience. Preference for ex-Servicemen. If required, an unfurnished house on the site may be rented for duration of main contract. Further particulars and application forms obtainable from Director of Establishments, Room 271, Stormont, Belfast, 4, to whom completed applications must be returned by 23rd FEBRUARY, 1960.

CITY OF PETERBOROUGH.

CITY ENGINEER'S DEPARTMENT: ARCHITECT'S SECTION.

Applications are invited for the undermentioned APPOINTMENTS:—

(i) TWO SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. IV, £1,065-£1,220 per annum.

(ii) TWO ARCHITECTURAL ASSISTANTS, Grade A.P.T. II, £765-£880 per annum.

Applicants for (i) should be Associates of the R.I.B.A., or its equivalent in one of the recognised schools of architecture, and for (ii) to have passed the Intermediate examination of R.I.B.A.

The assistants appointed will work as a team and will be engaged for the completion of a redevelopment scheme adjacent to the Cathedral, estimated to cost £300,000, comprising houses, flats, maisonettes, etc., in multi-storey blocks, of framed and load bearing construction. Experience in housing and flat design and cost control will be an advantage. Possibilities exist for permanent engagement for suitable assistants.

The scheme at present is in the sketch stage and assistants are required for preparing complete working and detail drawings, etc., where good draughtsmanship and knowledge of construction are essential.

Housing accommodation will be provided if required.

Application forms, together with conditions of appointment are obtainable from Mr. L. H. Robjohn, M.B.E., A.M.I.C.E., City Engineer and Surveyor, Town Hall, Peterborough, and should be returned by 3rd MARCH, 1959.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.
January, 1960.

CITY AND COUNTY OF BRISTOL.

EDUCATION COMMITTEE.

THE COLLEGE OF TECHNOLOGY.

The Governors invite applications for two posts as ASSISTANT LECTURERS in the Department of Building:

(a) An ASSISTANT, Grade B, for Plumbing Courses, to commence 1st MAY, 1960.

(b) An ASSISTANT, Grade A, for Heating and Ventilating Operatives Courses, to commence as soon as possible.

Salary: Grade B, £700 rising to £1,150; Grade A, £520 rising to £1,000.

Application forms, returnable within three weeks of this advertisement, from Registrar, College of Technology, Ashley Down, Bristol 7.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of:—

(A) TWO ARCHITECTURAL ASSISTANTS.

(B) ONE JUNIOR ASSISTANT QUANTITY SURVEYOR.

(C) ONE JUNIOR DRAUGHTSMAN.

Salary Grade for Posts (A) and (B) A.P.T. I, £610-£765 p.a., and for Post (C) General Division, £240-£595 p.a. (according to age), but successful candidates will be appointed at present salary if within the incremental scale.

Candidates must have passed the Intermediate Examination of the R.I.B.A. for Post (A) and R.I.C.S. for Post (B).

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach the undersigned by 10 a.m. 13th FEBRUARY, 1960.

A. LINDSAY CLEGG,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:

ASSISTANT ARCHITECT, Special Classes Scale (£785 x £40(6) x £45-£1,070).

TECHNICAL ASSISTANT (ARCHITECTURAL), Grade A.P.T. II (£765 x £25(1) x £30(3)-£880).

ASSISTANT QUANTITY SURVEYOR, Special Classes Scale (£785 x £40(6) x £45-£1,070).

STUDENT HEATING ENGINEER (General Division salary range £210-£655).

Candidates must be suitably qualified and experienced.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, forthwith.

Canvassing will disqualify. Any candidate who is related to a member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,
Town Clerk.

CITY OF YORK.

Applications are invited for the following permanent appointments:—

(a) ASSISTANT ARCHITECT (A.P.T. Grade III—£880-£1,065).

(b) ARCHITECTURAL ASSISTANT (A.P.T. Grade II—£765-£880).

(c) ARCHITECTURAL ASSISTANT (A.P.T. Grade I—£610-£765).

The commencing salary in each case will be in accordance with experience and qualifications.

Applicants for post (a) should be members of the R.I.B.A. and applicants for posts (b) and (c) should have passed the R.I.B.A. Intermediate Examination or equivalent.

Details of appointments and application forms may be obtained from the undersigned, to whom completed forms must be returned not later than first post on 13th FEBRUARY, 1960.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.,
City Architect.

8 St. Leonard's-place,
York.
January, 1960.

BOROUGH OF ALDERSHOT.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ASSISTANT ARCHITECT.

Applications are invited for the position of ASSISTANT ARCHITECT on the staff of the Borough Engineer and Surveyor at a salary according to the Grade A.P.T. IV. Applicants must be Corporate Members of the R.I.B.A.

A five-day week is in operation.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Acts, and to the successful candidate passing a medical examination.

Applications stating age, qualifications and experience together with the names and addresses of two referees, should be sent to the Borough Engineer and Surveyor, Town Hall, Aldershot, not later than FRIDAY, the 12th FEBRUARY, 1960.

Housing accommodation will be made available if required.

H. B. SALES,
Town Clerk.

Town Hall,
Aldershot.
25th January, 1960.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of TWO CLERKS OF WORKS on the permanent staff of the above Department. The salary will be in accordance with Grade A.P.T. II (£765-£880) and it is anticipated that the posts will carry car allowances. Applicants must have had considerable experience in the building industry and wide knowledge of reinforced concrete structures will be an advantage.

The appointments will be subject to:

(a) The National Scheme of Conditions of Service;

(b) the Local Government Superannuation Acts and the passing of a medical examination.

The County Council are prepared to grant a lodging allowance of 35s. per week to married applicants maintaining a home outside the geographical County for a period of six months; also 2nd class rail travel home every second month during the initial six months. The Council are also prepared to give consideration to the granting of financial assistance in appropriate cases towards removal expenses.

Forms of application, which must be returned by the 8th FEBRUARY, 1960, may be obtained from the County Architect, Green Hall, Lichfield-road, Stafford.

T. H. EVANS,
Clerk of the County Council.

COUNTY BOROUGH OF SOUTH SHIELDS.

Applications are invited for the following appointments in the Quantity Surveying Section of the Borough Engineers' Department:

(a) PRINCIPAL ASSISTANT QUANTITY SURVEYOR.

Applicants must be Associates of the Royal Institution of Chartered Surveyors and the salary paid will be in accordance with Grade IV (£1,065 to £1,220).

(b) MEASURING SURVEYOR.

Applicants must have experience of site measurement for and including preparation of interim certificates and final accounts and be capable of working without supervision and the salary paid will be in accordance with Grade I-II (£610-£880) according to age and experience.

Housing accommodation will be made available to the successful applicants if necessary.

The selected applicants for both appointments will be required to pass a medical examination for purposes of the Superannuation Acts.

Application forms are obtainable from the Borough Engineer, Town Hall, South Shields, and should be returned to him not later than 12 a.m. on FRIDAY, 26th FEBRUARY, 1960.

R. S. YOUNG,
Town Clerk.

BOROUGH OF TWICKENHAM.

Applications are invited for the following posts:—

(a) 1 PRINCIPAL PLANNING ASSISTANT (A.P.T. V, £1,220-£1,375 p.a.).
(b) 1 SENIOR ASSISTANT ENGINEER (A.P.T. IV, £1,065-£1,220).
(c) 1 JUNIOR ASSISTANT ENGINEER (A.P.T. I, £610-£765).
(d) 2 SENIOR ASSISTANT ARCHITECTS (A.P.T. IV, £1,065-£1,220).
(e) 1 ASSISTANT ARCHITECT (A.P.T. II, £765-£880).

Posts (a), (b) and (d) must have passed the final and (c) and (e) the intermediate examination of their appropriate technical institute.

All plus London Weighting allowance. Application forms obtainable from Borough Engineer, Municipal Offices, Twickenham, to be returned by 12th FEBRUARY, 1960.

W. H. JONES,
Town Clerk.

BOROUGH OF HARROW.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:—

BUILDING SURVEYORS, A.P.T. Grade III (£880 to £1,065 per annum, plus London "Weighting"), for works of maintenance and improvements to Municipal properties, chiefly Schools.

Applicants must possess a sound knowledge of building construction and services, and have extensive experience of specification writing.

Commencing salaries will be in accordance with qualifications and experience.

Contributions towards removal expenses will be considered.

The appointments will be subject to the Local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Application forms, obtainable from me, should be returned not later than SATURDAY, 13th FEBRUARY, 1960.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge-road,
Harrow,
Middlesex.

STEPNEY M.B.C. Require TEMPORARY ARCHITECTURAL ASSISTANT.

Salary £815-£1,100 p.a. Applicants must be members of the R.I.B.A. and experienced in design, construction and administration of large building contracts. Apply to Borough Engineer at Municipal Offices, 227 Commercial-road, E.1.

NORTHERN IRELAND HOUSING TRUST.

The Trust invites applications for the following posts:—

(a) ASSISTANT ARCHITECTS. Scales ranging from £950-£1,300.

Candidates must be qualified architects and placing will be according to experience.

(b) ARCHITECTURAL ASSISTANTS. Scales ranging from £650-£950.

Placing will be according to qualifications and experience.

The persons appointed will be required to participate in a contributory superannuation scheme which allows for the reciprocal transfer of benefits in Local Government Schemes in suitable cases.

Assistance in obtaining housing accommodation may be given in suitable circumstances to the successful candidates.

Please apply not later than 12th FEBRUARY, 1960, giving full details of age, education, qualifications and experience, including present post and salary, to the General Manager, Northern Ireland Housing Trust, 12 Hope-street, Belfast, 12.

For post (a) please mark envelope 33/77. For post (b) please mark envelope 33/78.

CITY OF BRADFORD.

SENIOR QUANTITY SURVEYOR.

Applications are invited for the superannuable appointment of SENIOR QUANTITY SURVEYOR (Post No. 170) in the City Engineer and Surveyor's office on Grade A.P.T. IV (£1,065-£1,220).

Candidates should be A.R.I.C.S. and should be capable of undertaking all stages of work in the preparation of Bills of Quantities and other contract documents, measurement of work, preparation of certificates for payment of interim and final accounts in connection with multi-storey flats, houses, shops, etc., on large housing estates.

Application forms obtainable from the City Engineer and Surveyor, Town Hall, Bradford, 1, with three testimonials, must be received by the undersigned by 21st FEBRUARY, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

STEPNEY M.B.C. Require TEMPORARY ARCHITECTURAL ASSISTANT.

Salary £795-£910 p.a., commencing according to qualifications and experience. Apply to Borough Engineer at Municipal Offices, 227 Commercial-road, E.1.

BOROUGH OF GRAVESEND.

APPOINTMENT OF ADMINISTRATIVE ASSISTANT (BUILDING SURVEYOR'S SECTION).

Applications are invited for the above appointment in the Department of the Borough Engineer and Surveyor, at a salary within Clerical Grade II (£670-£765 p.a.).

Duties include dealing with land charge searches, plans records and assisting with the administration of regulations dealing with petroleum storage and means of escape in case of fire in public buildings.

Applications, with full details and the names and addresses of two referees, should be sent to G. E. Hill, Esq., B.A., A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, 6 Woodville-terrace, Gravesend, to arrive not later than SATURDAY, 6th FEBRUARY, 1960. Candidates should state whether they would require housing accommodation.

F. W. HARRISON,
Town Clerk.

Municipal Offices,
Woodville-terrace,
Gravesend, Kent.

WARWICKSHIRE COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of LAND SURVEYING ASSISTANT on grade A.P.T. I (£610-£765). Applicants should have had experience in carrying out surveys of land and buildings and the preparation of survey plans. The commencing salary can be within the grade according to ability and experience.

Forms of application and other conditions applicable to the appointment can be obtained from E. Davies, A.R.I.B.A., Deputy County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc. (Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park-gardens, Enfield, Middx., returnable to the undersigned.

CYRIL E. C. R. PLATTEN, LL.B.,
Town Clerk.

Public Offices,
Enfield,
Middx.

BOROUGH OF LEYTON.

(Municipal Borough in Essex: Population Approx. 100,000.)

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF WORKS SUPERINTENDENT.

Applications are invited for the following permanent appointment:—

WORKS SUPERINTENDENT within Grade A.P.T. V (£1,220-£1,375 per annum plus London Weighting of £30 per annum).

Applicants must have had considerable experience in the building industry, and the person appointed will be primarily responsible for the expansion of the Direct Labour Building Section of the Borough Engineer's Department and the supervision of all works carried out by direct labour.

Essential user car allowance and favourable consideration to the provision of housing accommodation.

Details and conditions of the appointment may be obtained on application to the Borough Engineer, Town Hall, Leyton, London, E.10, to whom completed applications should be sent not later than MONDAY, 8th FEBRUARY, 1960.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

THE BETHLEM ROYAL HOSPITAL AND THE MAUDSLEY HOSPITAL.

BUILDING SUPERINTENDENT required to assume responsibility for the day to day maintenance of the buildings at the Bethlem Royal Hospital, Beckenham, Kent, and the Maudsley Hospital and ancillary premises, including the control of staff. Salary scale £775 x £25(3) x £30(2)-£910 a year inclusive of London Weighting. Possibility of hospital accommodation. For application form apply to House Governor and Secretary, Maudsley Hospital, Denmark Hill, S.E.5, within 14 days of the date of the appearance of this advertisement.

BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited from Corporate Members of the R.I.B.A. for the following vacancies in the Chief Architect's Department:

(1) ARCHITECT, Grade VI (£1,163-£1,390).
(2) ARCHITECT, Grade IV (£1,065-£1,220).

Superannuation schemes, medical examination. Housing available. Apply by 19th FEBRUARY, stating post applied for and giving age, education and qualifications, experience and appointments held (with dates and salaries), and names of two referees, to General Manager (A), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

NORTHAMPTONSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.
A.P.T. I (£610-£765 per annum).

Applications for the above APPOINTMENT are invited from candidates with the necessary qualifications.

A weekly sum of 25s. by way of temporary additional salary is payable, subject to review quarterly, to a married officer unable to find a house locally.

Details giving age, education, qualifications and experience, with a copy of a recent testimonial, should be sent in an envelope marked "Architectural Assistant" to the County Architect, County Hall, Northampton, by WEDNESDAY, 10th FEBRUARY.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

BOROUGH OF WARWICK.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for a SENIOR ASSISTANT to work immediately under the Chief Architectural Assistant in the Borough Surveyor's Department. Salary A.P.T. III (£880-£1,065), entry in the scale according to qualifications and experience. The position is permanent and subject to medical examination. Housing accommodation will be provided if necessary and removal expenses paid.

Applicants must have passed at least the Finals of the R.I.B.A.

The post offered is for the design and site supervision of large Housing Estate Development incorporating shops, multi-storey flats, etc., and for the general supervision of Direct Labour Staff.

Applications, stating age, qualifications, experience and the names and addresses of two referees, should be sent to the Borough Surveyor, 23 Jury-street, Warwick, not later than MONDAY, the 15th FEBRUARY, 1960.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23 Jury-street,
Warwick.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointment:—

SENIOR ASSISTANT ARCHITECT—GRADE IV, £1,065-£1,220.

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than 3 years.

Further details and application forms returnable by 12th FEBRUARY, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

REDHILL GROUP HOSPITAL MANAGEMENT COMMITTEE.

Earlswood Mount, Pendleton-road, Redhill.

BUILDING SUPERVISOR Required who will be responsible for the planning and supervision of the building maintenance work of the Group. The work includes the preparation of estimates, drawings and specifications, etc. The person appointed must have served a full apprenticeship followed by experience as a craftsman in an appropriate trade, and had some years' experience as a general foreman in the carrying out of building contracts. It is also desirable that he should have the Ordinary National Certificate or a comparable qualification and be between 30 and 45 years of age. Salary £810 x £25 (3) x £30 (2)—£945 p.a. Applications stating age, experience, qualifications and names and addresses of two referees to Group Secretary at the above address not later than 12th FEBRUARY, 1960.

BOROUGH OF DOVER.

SENIOR ASSISTANT ARCHITECT.

Applications are invited from qualified Architects for the above appointment within the Special Grade (£785-£1,070).

Applications, together with the names and addresses of two persons to whom reference may be made, must be delivered to the Borough Engineer, Brook House, Dover, not later than the 15th FEBRUARY, 1960.

The provision of housing accommodation will be considered.

JAMES A. JOHNSON,
Town Clerk.

New Bridge House,
Dover.
20th January, 1960.

ADMINISTRATIVE COUNTY OF LEICESTER.

ASSISTANT BUILDING SURVEYOR, £785-£1,070 according to experience. Candidates should have had experience in the preparation of Specifications, Bills of Quantities and the settlement of final accounts. Final R.I.C.S. preferred. Lodging allowance and removal expenses may be paid to a married man.

Apply by SATURDAY, 13th FEBRUARY, 1960, on form obtainable from County Architect, 123 London-road, Leicester.

BOROUGH OF ILFORD.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN, GRADE MISC. IV MALE OR FEMALE.

Applications are invited for this appointment on the permanent staff of the Borough Engineer. Salary £590-£650, plus London Weighting. Commencing salary according to qualifications and experience. Maximum paid to suitable applicant.

Candidates must be capable of preparing working drawings under supervision.

Form of application obtainable from the Borough Engineer, Town Hall, Ilford, and should be returned by MONDAY, 8th FEBRUARY.

ASSISTANT ARCHITECTS.

Borough Architect's Department. (Mr. E. A. H. MacDonald, A.R.I.B.A.) Housing, Libraries, Baths, etc. Assisted training scheme. Minimum two years' continuous office experience essential. Salary according to qualifications and experience. A.P.T. I (£630-£785); A.P.T. II (£785-£910); Special Scale (£815-£1,100). Details from Town Clerk, Town Hall, Fulham, S.W.6. Closing date 11th FEBRUARY.

THE JIFFY SECRET WEDGE NAIL FOR WALLBOARD

NO MORE UGLY NAIL HEADS OR HAMMER MARKS

Inserted with a tool holding a pack of 50 nails at one loading.

Also, the maker of the JIFFY wallboard bevellingandgrooving tools.

Sold and manufactured by the Patentee

E. CHALMER, 9, THE CRESCENT, SURBITON,

Trade enquiries invited. ELMbridge 3593 SURREY

HUNTINGDONSHIRE

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT—GRADE A.P.T. II (£765-£880).

Applications are invited to fill a number of appointments which exist in the above Department on Grade A.P.T. II.

The persons appointed will become members of small architectural teams engaged in projects of varying size. It is desired that the persons appointed shall be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms may be obtained from S. M. HOLLOWAY, A.R.I.B.A., County Architect, County Buildings, Huntingdon, and completed forms should be returned to the undersigned by MONDAY, 8th FEBRUARY, 1960.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

BUILDING FOREMAN

Required by L.C.C. for new building, modernisation and conversion work by direct labour in Greater London area. £655 to £750 according to qualifications and experience plus bonus. Stamp to Director of Housing (G/O), County Hall, S.E.1 for application form. (99.)

AIR MINISTRY Works

Designs Branch requires in LONDON and Provinces, ARCHITECTURAL ASSISTANTS with adequate training and drawing office experience, O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 working days' leave per year initially. Overseas tours for which special allowances granted. Salary in LONDON ranges from £680 (age 25) to £900 p.a. for men; from £673 to £868 p.a. for women; somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.c., Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange (quoting Order No. Kings Cross 3744), giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following APPOINTMENTS :—

(1) ASSISTANT COUNTY ARCHITECT, at a salary in accordance with Scale B (£1,265 x £55 (4)—£1,485).

(2) CHIEF HEATING, MECHANICAL, ELECTRICAL ENGINEER, at a salary in accordance with Scale A (£1,170 x £55 (4)—£1,390).

(3) SENIOR ASSISTANT HEATING, MECHANICAL ENGINEER, at a salary in accordance with A.P.T. Grade IV of the National Scales of salaries (£1,065-£1,220).

(4) ASSISTANT MAINTENANCE SURVEYORS, one on A.P.T. Grade II (£765-£880) and one on A.P.T. Grade I (£610-£765).

(5) ARCHITECTURAL ASSISTANTS, one on A.P.T. Grade II (£765-£880) and one on A.P.T. Grade I (£610-£765).

Commencing salary in all cases will be according to experience.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than the 10th FEBRUARY, 1960.

STEPNEY M.B.C. Require

TEMPORARY BUILDING SURVEYING ASSISTANT. Salary £815-£1,100 p.a. Applicants must have suitable qualifications and be experienced in preparation of drawings and specifications for the improvement and conversion of residential properties. Apply to Borough Engineer at Municipal Offices, 227 Commercial-road, E.1.

KENT COUNTY COUNCIL

Requires a CARTOGRAPHICAL DRAUGHTSMAN in the Planning Department, County Hall, Maidstone. Salary within Miscellaneous Grades I-IV (£425-£560 per annum), commencing point according to qualifications and experience. Post is superannuable. Five-day week. Applications with names of two referees to County Planning Officer, County Hall, Maidstone, by 10th FEBRUARY, 1960.

STRUCTURAL ENGINEERS.

Various vacancies for ENGINEERS in Architect's Department L.C.C. Up to £1,135, and with good prospects.

(a) STRUCTURAL ENGINEERING DIVISION.—Extensive programme includes multi-storey flats, school, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION.—To deal with applications in respect of special structures under Part IV of the London Building Act, (A) Act, 1939, and the constructional byelaws. Interesting work involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYOR'S SERVICE.—Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/112/59, County Hall, S.E.1. (2629.)

METROPOLITAN BOROUGH OF FULHAM.

ASSISTANT BUILDING SURVEYOR.

Borough Architect's and Housing Department. A.P.T. I (£610-£765) plus London Weighting, £20-£30 p.a. Experience in the building trades, knowledge current rates and prices, inspecting, pricing and ordering repairs for housing estates and public buildings. Application forms from Town Clerk, Town Hall, S.W.6. Closing date 11th FEBRUARY.

CITY OF BRADFORD.

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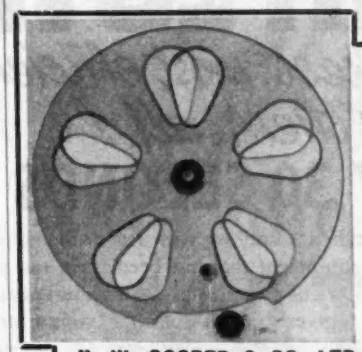

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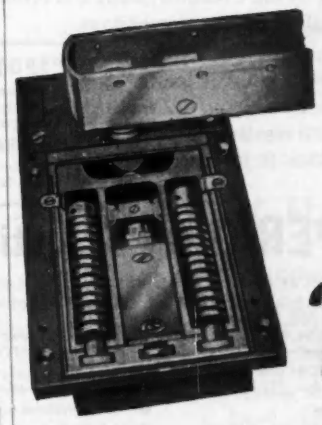

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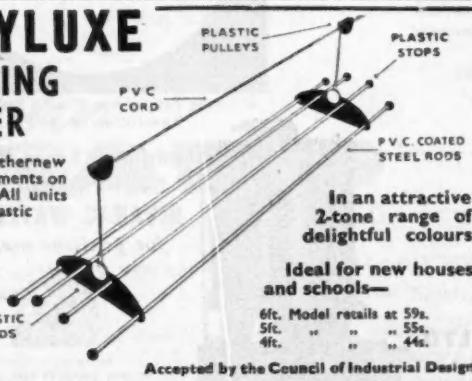

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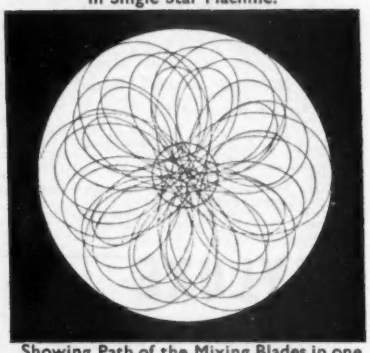

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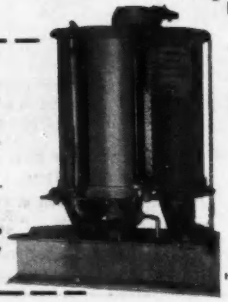

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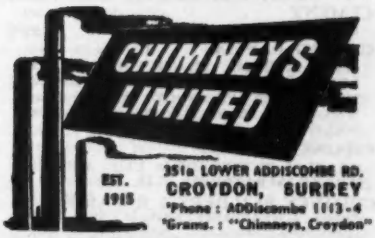

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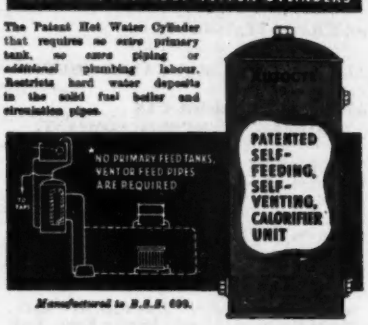

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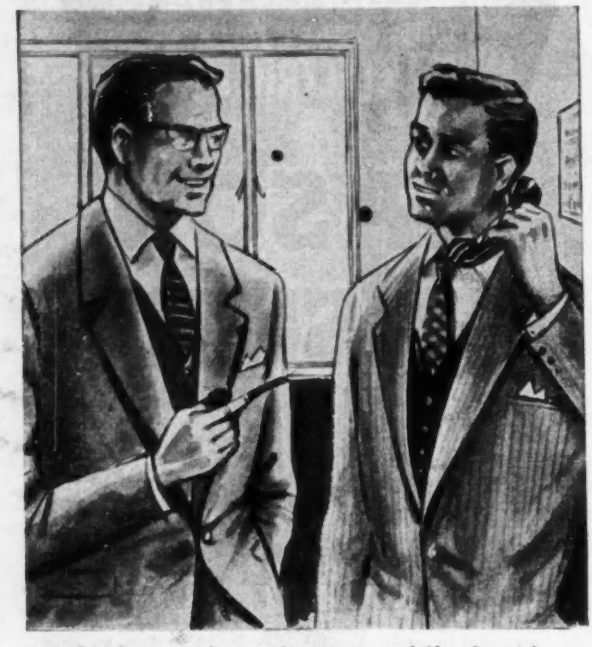

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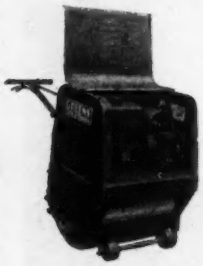

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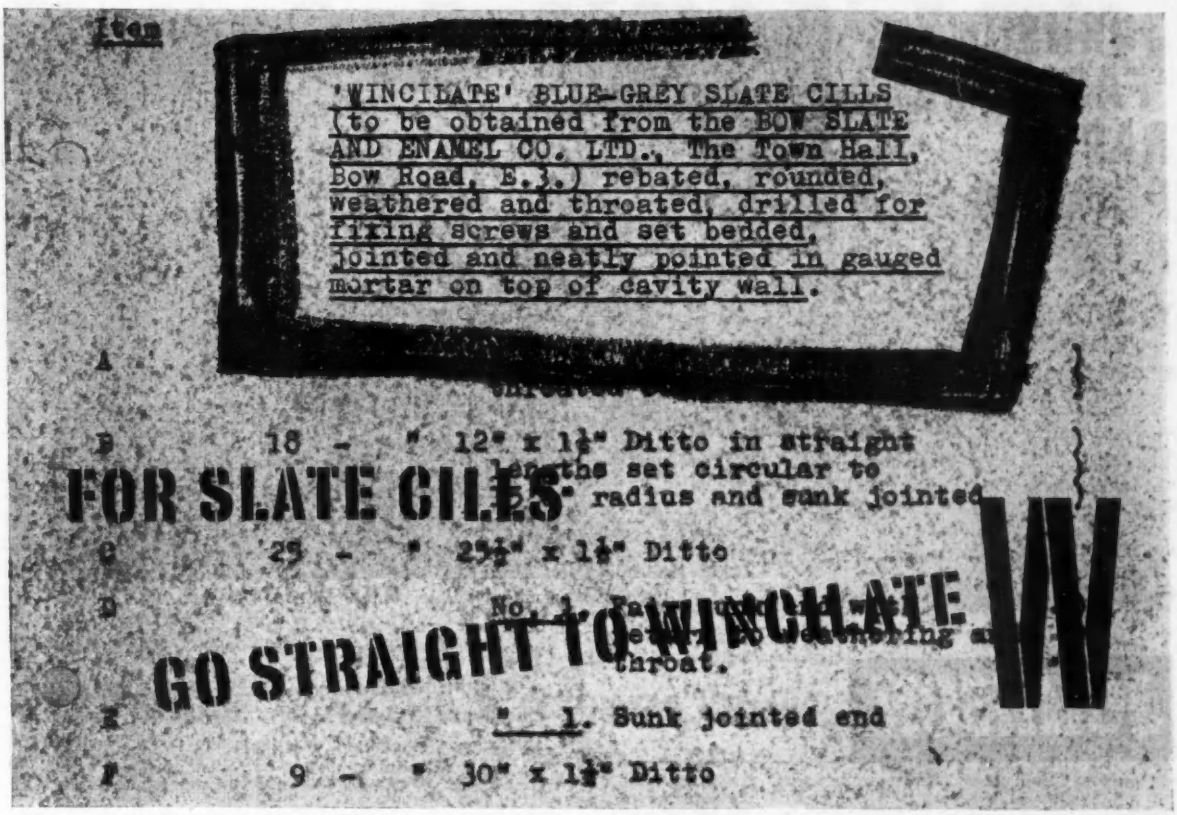

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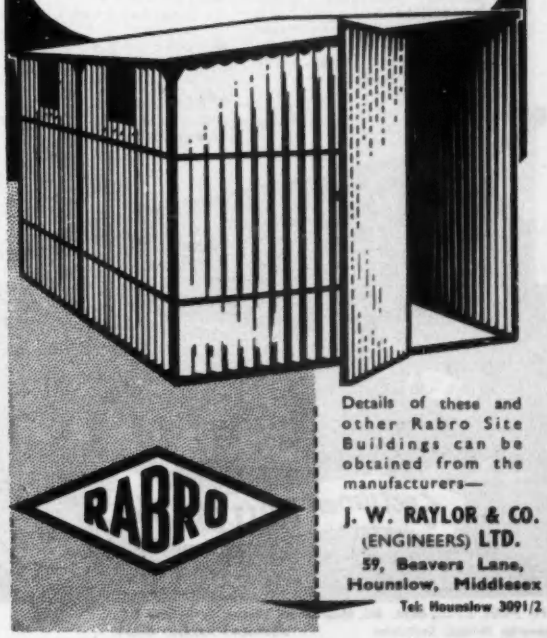

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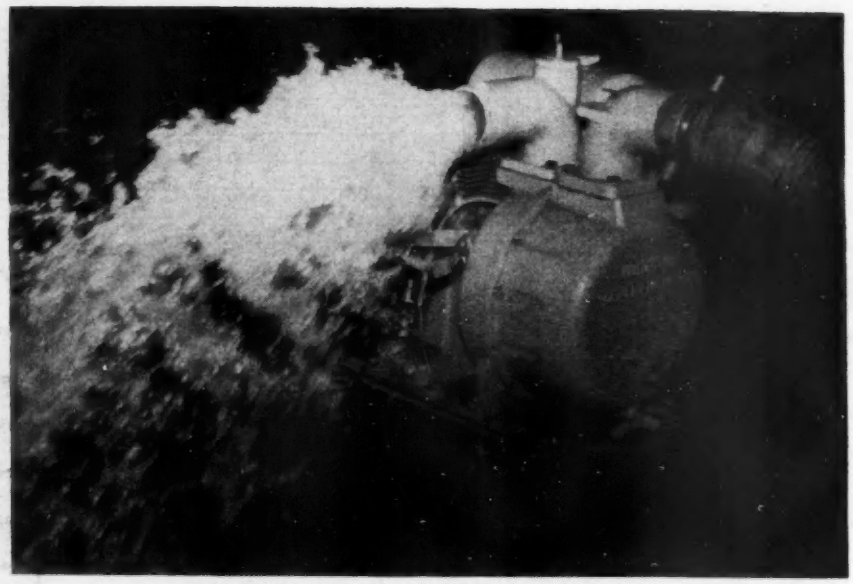

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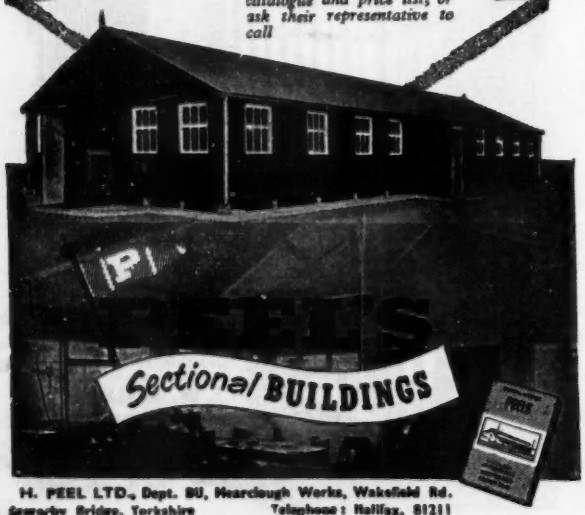

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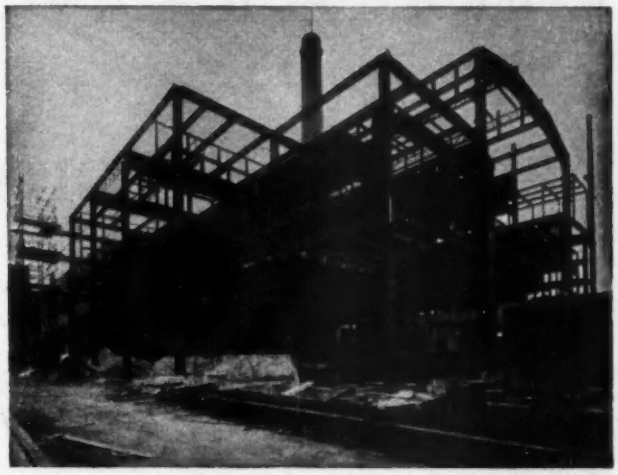

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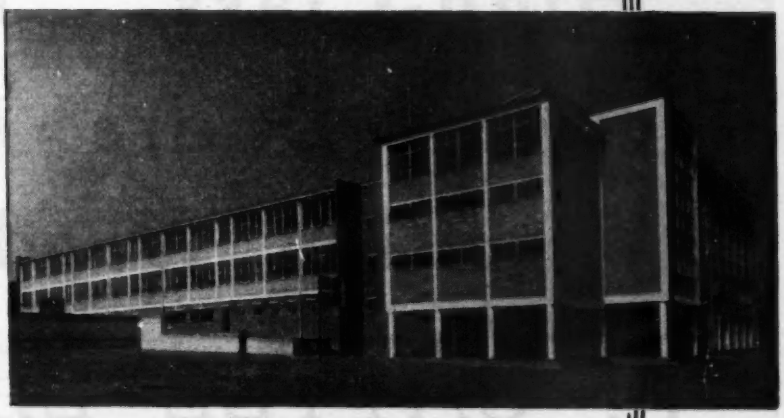

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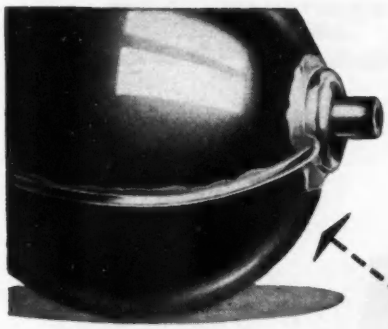

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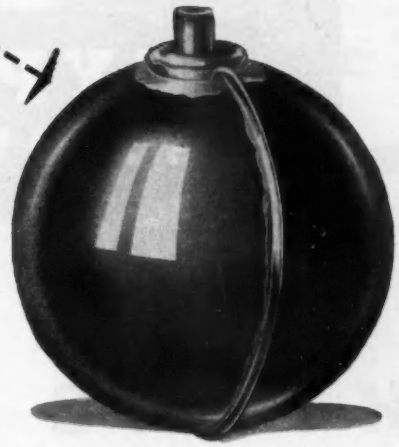

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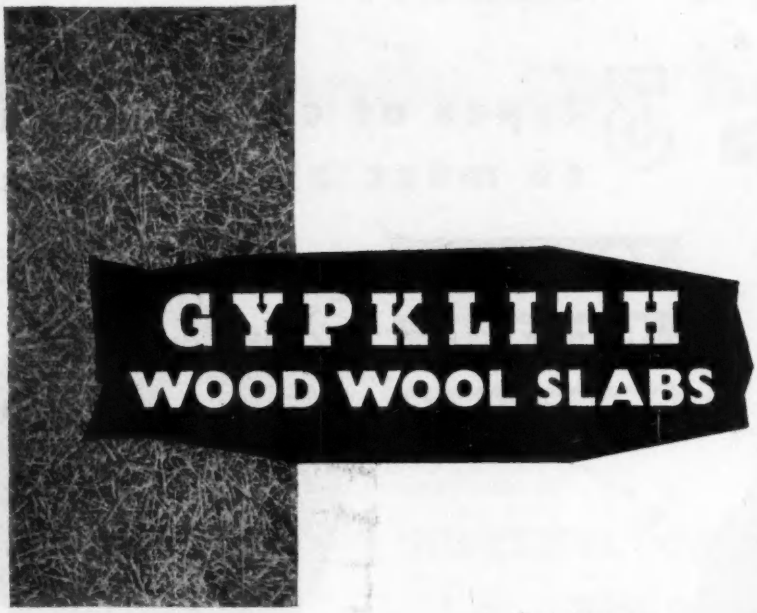

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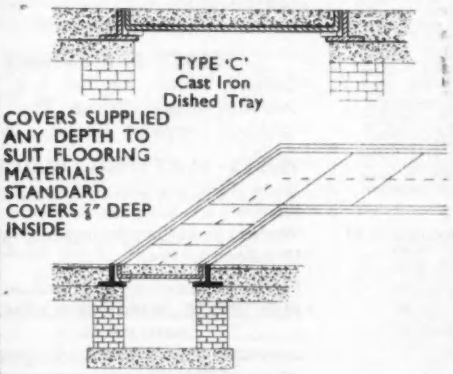

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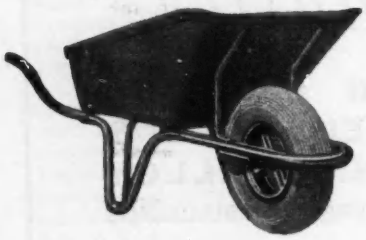

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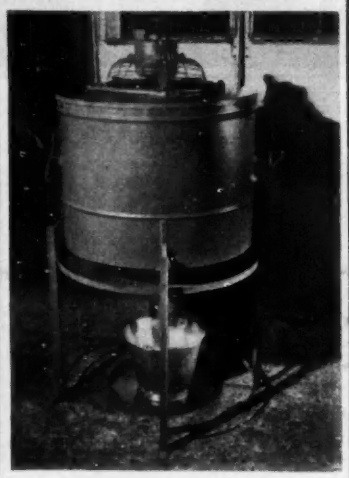

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LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies in their Welwyn Garden City office for SENIOR AND JUNIOR ASSISTANTS.—Write stating age, salary and experience to the above at Midland Bank Chambers, Howardsgate, Welwyn Garden City, Herts.

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Manfield Chambers,
117, Fishergate, Preston, Lancs.

QUANTITY SURVEYORS

required, aged 28-40 years, capable of dealing with all aspects of Final Account to completion on contracts up to £1,000,000. Write fully stating experience, salary expected, etc., to Chief Surveyor, Wilson Lovatt & Sons Ltd., 16 Grosvenor Crescent, London, S.W.1.

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QUANTITY SURVEYOR, preferably R.I.C.S. qualified, for responsible position.—VOISEY, 718 Chester-road, Birmingham, 23.

QUANTITY SURVEYOR for site measuring and final accounts.—VOISEY, 718 Chester-road, Birmingham 23.

ASSISTANT QUANTITY SURVEYOR studying for Final R.I.C.S. Must be experienced in site measuring and final accounting work; salary by arrangement.—Write, stating age, experience, qualifications, etc., OVE ARUP & PARTNERS, Consulting Engineers, 8 Fitzroy-street, London, W.1.

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MEASURING SURVEYOR Required by London Chartered Quantity Surveyors for permanent staff. —Write, stating age, experience and salary required, to Box 976, "The Builder."

PRACTICAL SURVEYOR Required as assistant to Chartered Surveyor for control of building work in London area. Salary £800/£900 per annum. —Reply fully to Box 620, "The Builder."

BONUS SURVEYORS Required, experienced in measuring and applying incentive scheme for building contracts in London.—Write, giving details of experience, age and salary required to KIRK & KIRK, Ltd., Atlas Works, Putney, S.W.15.

CONTRACTOR'S SURVEYOR urgently Required N.W. London. Site measuring. Variations and final accounts. Pension scheme, holiday this year.—Write giving details of experience and salary required, Box 695, "The Builder."

REQUIRED by Established Reinforced Concrete Engineers. SURVEYOR, fully experienced in Taking-off and measuring for final accounts. Position is permanent, pensionable and progressive.—Write stating age, experience and salary required to Box 985, "The Builder."

BUILDING SURVEYOR with wide knowledge of contemporary and traditional construction Required by London firm of Chartered Quantity Surveyors to specialise in Approximate Estimating, Cost Analysis and Cost Research. Preference for A.R.I.C.S. (section 3b) but experience taken into account. Five-day week; Luncheon Vouchers. Commencing salary £800-£1,000 p.a., according to experience.—Reply to Box 788, "The Builder."

EXPERIENCED BONUS SURVEYOR Required for London contracts.—Write stating age, experience and salary required to HIGGS & HILL, Ltd., Crown Works, South Lambeth-road, London, S.W.8.

MEASURING SURVEYOR Required for City Quantity Surveyor's office. Pension and Life Assurance Scheme.—State age, experience and salary required to Box 821, "The Builder."

MESSRS. OSWALD E. PARRATT Require experienced MEASURING SURVEYOR for their Harlow Office. Five-day week; Pension Scheme. Service agreement to suitable applicant. Housing accommodation may be available.—State age, experience and salary required to Adelaide House, London Bridge, E.C.4.

SURVEYOR Required by Builders and Contractors, Reading area, to assist in all aspects of the industry. Applicants should be able to take off from drawings and specifications, measure in all trades for final accounts and sub-contract payments. Good prospects for keen man.—Reply giving age, experience and salary expected to Box 829, "The Builder."

SURVEYOR Required for pre-planning and programming of work for a progressive firm in Home Counties (N). This is a new post and applicants should be site-trained and prepared to study bonusing of all building trades for incentive scheme. State salary required. Substantial recognition of results. —Write full details, Box 753, "The Builder."

SENIOR SURVEYOR

for the head office of

C. J. SIMS LTD.,
Building & Civil Engineering Contractors,
2 Victoria Street, S.W.1.

Age 28–35. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts, including the building up of rates.

Apply in confidence, giving age, complete details of training, experience and salary required.

SUPERVISING SURVEYOR

(Age 30/35)

Alterations and Decorations (Small Works). Able to estimate and organise own contracts. Good salary and annual bonus on results. Free Pension Scheme.

Box No. 1075, "The Builder"

SURVEYOR

required for taking off and preparation of Bills of Quantities in connection with Estate Roads and Sewers. Pension scheme in operation after qualifying period. Write giving full particulars and salary required to **H. C. Janes Ltd., 183 High Town Road, Luton.**

Ford & Walton Ltd.,

require

Assistant Builders Surveyors

Opportunity for young men who have had some training to widen their experience under the supervision of Senior Surveyors in an expanding Company—Apply Personnel Manager, Ford & Walton Ltd., Walton House, Warton Road, E.15.

SURVEYOR/ESTIMATOR

required by

GALBRAITH BROTHERS LIMITED

with wide experience of price build up for contracts of all types. Permanent pensionable position for right man. Reply stating age, salary required and giving full details of previous experience to:—

Managing Director,
61 Bartholomew Close,
London, E.C.1.

SENIOR ASSISTANT

required for
London Firm of
Chartered Quantity Surveyors

Salary up to £1,350 per annum, according to age and experience. L.V.'s, 5 day week, overtime paid and Pension Scheme.

Please apply to:
Box No. 835, The Builder

JUNIOR SURVEYOR

for the head office of C. J. SIMS LTD., Building & Civil Engineering Contractors. Age 20–25. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts. Apply, in confidence, giving age, complete details of training, experience and salary required to:

C. J. SIMS LTD.,
2 Victoria Street, S.W.1.

SENIOR ASSISTANTS Required by firm of Quantity Surveyors for site measuring on Government Contracts in the Home Counties. Experience of W.D. Schedule essential.—Apply in writing giving age, experience and salary required to Box 864, "The Builder."

SITE MEASURING SURVEYORS, fully experienced in W.D. schedule Required in connection with Air Ministry Maintenance contracts in Worcestershire, Somerset and Wilts., Hampshire/Sussex. Car owners preferred.—Apply stating age, education, experience and salary required to J. & J. LUDLOW & PARTNERS, 64 Easton-street, High Wycombe, Bucks.

CONTRACTOR'S SURVEYOR Required for an expanding firm of Reinforced Concrete Specialists. Applicants, preferably 25-35, must have experience in interim and final valuations, with some knowledge of taking-off and price build up for all trades. This is an excellent opening for a man with drive and initiative to secure a progressive position in a well-established firm with good connections. —Give details of age, experience and present salary to Chief Surveyor, THE LONDON FERRO-CONCRETE CO., Ltd., Maxted-road, Hemel Hempstead, Herts.

BUILDING SURVEYOR/SUPERVISOR Required for small works, conversions, etc. Office close to Victoria Station.—Please give a few details of experience and salary required to Box 861, "The Builder."

BUILDER'S SURVEYORS

ASSISTANTS Required for site measuring, all trades, on high-class commercial and industrial contracts.—Apply stating age, technical education and experience, to McLAUGHLIN & HARVEY, 24 Highbury-grove, N.5.

SENIOR SURVEYOR or SENIOR ESTIMATOR Required Manchester Building and Civil Engineering Contractor, capable of controlling department or able to take full responsibility large contracts from estimate to final account. Salary £1,000-£1,400 plus bonus, etc., etc. Excellent prospects with financially sound company.—State age, full particulars, in confidence, Box 1017, "The Builder."

SEMI-SENIOR and JUNIOR SURVEYORS Required by large Building Contractors in the Plymouth area. Good prospects, variety of work. Superannuation Scheme.—Applications should state age and experience to Box 899, "The Builder."

SEVERAL ASSISTANTS Required by Quantity Surveyors for Taking-off and Final Accounts in West Country.—Experience, salary required, etc., to Box 1001, "The Builder."

SENIOR SURVEYOR Required by South-East London contractor. Good prospects and permanent position for right man. Superannuation Scheme.—Write, stating age, experience and salary required to Box 1007, "The Builder."

BUILDING MAINTENANCE SURVEYOR to deal with properties in the South-West and Midlands but based in London. Commencing salary £790 per annum or £898 per annum, according to experience. Pension Scheme.—Write, giving details of age and experience, to Surveyor, PICKFORDS, 205 High Holborn, London, W.C.1.

CARDIFF FIRM OF QUANTITY SURVEYORS Require EXPERIENCED ASSISTANT for dealing with final accounts for varied types of contracts up to £100,000. Permanent. Pension and Sickness Schemes. State age, experience and salary required.—Box 883, "The Builder."

AN EXPERIENCED SENIOR MEASURING SURVEYOR Required by Consulting Engineer for extensive Power Station Contracts in North East England.—Reply stating age, experience, qualifications and salary required, to MERZ AND McLELLAN, Consulting Engineers, Carlisle House, Newcastle upon Tyne, quoting Reference SAR.

BUILDING SURVEYOR, age 30-45, with sound experience of maintenance work, dilapidations, conversions, structural surveys, pricing, etc., Required by professional firm, S.W.1.—Applications stating age, experience and salary required, to Box No. DA 2835, c/o WHITE'S, 72 Fleet-street, London, E.C.4.

BONUS/COST SURVEYOR Required urgently, with some previous experience and able to take own measurements.—Apply in writing to STAVERTON CONTRACTORS LIMITED, Staverton, Totnes, Devon.

MANCHESTER Chartered Quantity Surveyors Require experienced MEASURING SURVEYOR, able to deal with all stages of Final Accounts.—FRANK HYAMS & PARTNER, 28 Queen-street, Manchester, 2.

MEASURING SURVEYORS Required, capable of handling contracts from £5,000-£250,000, must be experienced in Taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

SURVEYOR Required for contractor's office, Holloway, to deal with small and medium sized contracts and housing schemes from enquiry to completion.—Write giving details of age, experience, etc., to Box 1078, "The Builder."

MEASURING SURVEYOR with knowledge of War Department Schedule Required by Quantity Surveyors. Oxfordshire and Buckinghamshire borders. Apply stating actual experience on the Schedule, salary required and if car owner.—Box 1041, "The Builder."

JUNIOR SURVEYOR, able to deal with contracts from enquiry to account. Take-off drawings and specifications and price Bills of Quantities. Required by Contractors, S.E.1 district. Excellent opportunity for advancement. Superannuation scheme.—Full details, including salary required, to Box 1043, "The Builder."

BONUS SURVEYORS AND ASSISTANTS

Required for Building Sites in the LONDON area. Excellent salaries and prospects. Experience of measuring all trades essential. Full details of experience to:—

Chief Bonus Surveyor,
Tersons Ltd.,
4, Dollis Park, London N.3.

ESTIMATING SURVEYOR

not over 45, for contractor's Building and Decorating Department. Based Kingston area. Able to work from estimate to final account. Pension. Salary not less than £850.—Write full details

Box 866, 'The Builder'

PRODUCTION SURVEYORS

required for large contracts in the greater London area, with experience of incentive schemes, pre-planning contracts, taking off quantities, measuring all types of work. Write giving full details and salary required.

Box No. 828

BOVIS LTD

have vacancies on their
HEAD OFFICE STAFF

for keen young men about 25 years of age, to take charge of measuring and final accounts on contracts in London and the Provinces. Some previous experience of this work is required, but training will be given to enable successful applicants to reach the required standard. Prospects of promotion are good and salary will be reviewed annually. The work is interesting and will produce top grade surveyors. There will be an opportunity for developing experience in estimating or contract managing after a period of measuring, if required. The usual facilities are offered; staff bonus, superannuation, canteen, etc. Write to MC Department for appointment, stating age and experience.

CUBITTS

COST SURVEYORS

required immediately

Must be experienced in measuring completed site works for the purpose of unit costing, and assessment of targets. Permanent and pensionable positions with good prospects.

Apply in confidence stating age, experience in detail and salary required to

Personnel Manager,
Holland & Hannen and Cubitts
(Great Britain) Ltd.,
1 Queen Anne's Gate,
London, S.W.1.

ALLEN FAIRHEAD & SONS LTD.

invite applications from

COST AND BONUS SURVEYORS

Who have had previous experience of systematic bonusing and cost control on contracts.

Applications, stating age, experience and salary required should be forwarded to:—

The Chief Surveyor
Allen Fairhead & Sons Ltd.,
Enfield, Middlesex.

Newly formed company with several small contracts on hand requires the services of

First Class SURVEYOR/ESTIMATOR

who is capable of supervising work and introducing new business

Remuneration by way of salary, expenses and profit sharing with a view to Directorship, following period of proven ability. This position offers scope to an ambitious young man who particularly knows Plastering or to an older man who is looking for security as well as being a principal in his own business.

Apply giving detailed particulars of career to date and salary required to

Box No. 884, "The Builder"

SURVEYOR

Applications invited from men age range 26–45 who have had recent past experience in successful handling of Final Accounts for large Building Contract work including Monthly Certificates and Variations etc. Working from Wolverhampton as a base and visiting several jobs. Applications should give full details of recent record of employment with a similar Company and responsibilities, addressed to Personnel Manager, Wilson Lovatt & Sons, Ltd., Clarence Street, Wolverhampton.

ASSISTANT BUILDING SURVEYOR Required, capable of Taking-off quantities from drawings, site measuring, valuation, final accounts and supervision. Previous experience essential. Good opportunity for right applicant.—F. HITCH & CO. Ltd., Church-street, Ware, Herts.

ASSISTANT SURVEYORS

ASSISTANT SURVEYOR Required in London Office by SIR LINDSAY PARKINSON & Co. Ltd., to prepare and maintain Financial Progress Charts and Schedules. Must be capable of working with a minimum of supervision. This appointment is permanent, progressive and superannuated.—Write, with full details and salary required, to the Housing Director, 6 Lambeth-road, S.E.1.

ASSISTANT BUILDING SURVEYOR Required by South-East London contractor. Good prospects and permanent position for right man. Superannuation Scheme.—Write, stating age, experience and salary required to Box 1008, "The Builder."

PAINTING and Plastering Contractors Require ASSISTANT SURVEYOR to carry out site measuring, accounts, etc., generally in the London area. Excellent terms to keen man.—Write in confidence stating age and experience to Box TB.701, c/o 191 Gresham House, E.C.2.

LONDON Chartered Quantity Surveyors Require ASSISTANTS for their Cambridge Office for Final Accounts and Taking-off.—Reply, stating experience, age and salary required, to Box 1042, "The Builder."

ASSISTANT SURVEYOR Required with minimum qualifications of O.N.C. and experience in preparation of Quantities. Training will be given in planning techniques. Preference will be given to applicants with site experience and a lively interest in new ideas for improving production methods. Our expansion programme provides excellent prospects of promotion to senior executive level.—Apply stating age, experience, qualifications, availability and present salary to The Secretary, LAURENCE WEAVER Ltd., 45 Ledgers-road, Slough, Bucks. All applications will be treated with strict confidence.

ASSISTANT SURVEYOR Required for London office. Experienced in Working-up and site measurement. 5-day week.—Write, stating age, experience and salary required, Box 659, "The Builder."

ASSISTANT MEASURING SURVEYOR Required for interesting and varied work on Contracts in London and Provinces.—Ring LANgham 0801 for appointment.

JUNIORS

QUANTITY SURVEYORS Require at once TWO JUNIORS to be trained for the profession.—ARTHUR J. WILLIS & THOMPSON, 41-42 Parliament-street, London, S.W.1.

YOUTH recently left school Required in Chartered Quantity Surveyor's Office. Opportunities for training for the profession granted.—Write stating age, and particulars of G.C.E. passes to WOOD AND WEIR, 5 Wigmore-street, London, W.1.

TAKERS OFF

TAKER-OFF for permanent position in old established London office. Preferably A.R.I.C.S. Must be capable of dealing efficiently and speedily with variety of work in the face of rush periods. Commencing basic salary of £1,250 plus overtime with a guaranteed minimum gross income of £1,500. A second TAKER-OFF (of Final Standard) at commencing basic of £1,000 with guaranteed £1,250 gross.—Write details to Box 859, "The Builder."

TAKERS-OFF (junior and senior) Required by WALTER W. GREEN & PARTNER, Quantity Surveyors, 396 Seven Sisters'-road, Finsbury Park, N.4.—Reply in own handwriting stating age, experience and salary required.

EXPERIENCED TAKER-OFF (A.R.I.C.S.) Required by DEARLE & HENDERSON, Chartered Quantity Surveyors, 75 Victoria-street, S.W.1. Permanent position. Superannuation Scheme.—Write or 'phone ABBey 2841 for appointment.

CHARTERED QUANTITY SURVEYORS Require experienced TAKERS-OFF and WORKERS-UP for their London, West End, Office. Excellent prospects.—Please reply stating age, experience and salary required, Box 406, "The Builder."

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyor's office.—Apply, stating age, experience, qualifications and salary required, to Box 908, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write, stating age, experience and salary required, to Box 936, "The Builder."

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor.—Please write stating age, experience and salary required to Box 964, "The Builder."

QUANTITY Surveyors Require COMPETENT TAKERS-OFF, Final and Intermediate standards, for West End Office, also for positions overseas.—Apply BOND, FOSTER AND PARTNERS, 19 Hertford-street, Park-lane, W.1.

JUNIOR TAKER-OFF, approaching final standard, for small firm, S.W.1; progressive position on varied work. State age, experience and salary required.—Box 610, "The Builder."

EXPERIENCED T.O. Required by Chartered Quantity Surveyors near Victoria Station. Salary £1,000 upwards according to experience. Pension scheme. Luncheon vouchers.—Write full particulars to Box 696, "The Builder."

TAKER-OFF Required in small busy professional Office. Salary according to experience.—Write or 'phone: CLARK AND GEARING, 16 Dominion-street, E.C.2.

QUANTITY SURVEYORS, Central London, Require JUNIOR TAKER-OFF, either qualified or about to sit Final R.I.C.S. Salary £800 p.a. Five-day week. Luncheon scheme.—Apply stating age and experience to Box 790, "The Builder."

JUNIOR TAKER-OFF, preferably qualified, Required for medium sized Quantity Surveyor's office in Victoria-street, Westminster. Duties will be varied and offer opportunity to gain experience in the profession as a whole. Five-day week. Salary according to qualifications. Pension scheme optional.—Box 967, "The Builder."

SHEFFIELD. Chartered Quantity Surveyors Require TAKER-OFF.—Apply in writing stating age, experience and salary required, Box 734, "The Builder."

TAKER-OFF, Intermediate R.I.C.S. standard, Required.—Apply stating age, experience and salary required to BRYDEN & WOODFORD, 33 Catherine-place, S.W.1.

REQUIRED immediately, TEMPORARY TAKER-OFF, London.—Please reply full particulars Box 832, "The Builder."

PART-TIME ASSISTANT Required immediately, Taking-off and Working-up, London.—Please reply Box 833, "The Builder."

TAKER-OFF Required by firm of Chartered Quantity Surveyors in London. Salary £950 per annum.—Please reply stating age and experience to Box 433, "The Builder."

JUNIOR TAKER-OFF Required for City Chartered Quantity Surveyors. Pension Scheme.—State age, experience and salary required to Box 819, "The Builder."

TAKER-OFF, intermediate standard, Required by Chartered Quantity Surveyors near London Bridge. Five-day week; Pension Scheme.—State age, experience and salary required to Box 820, "The Builder."

"London Firm of Chartered Quantity Surveyors" require experienced

TAKERS-OFF and WORKERS-UP

in London Office and for long term contracts in South Wales.
Please apply stating age, experience and salary required to Box No. 834

TAKER-OFF Required, 25-30 years old, to be qualified or of final examination standard, capable of taking-off quantities for town centres, flats, offices, schools, factories, etc.—Write stating age, qualifications, training, salary required, to: LANE & JEWELL, Quantity Surveyors, 15 Buckingham Palace-gardens, Buckingham Palace-road, London, S.W.1.

JUNIOR TAKER-OFF Required for Chartered Quantity Surveyor's office in Holborn.—Reply stating experience, age and salary required to Box 885, "The Builder."

CHARTERED QUANTITY SURVEYORS IN Holborn area Require TAKER-OFF. Varied and interesting practice. Salary about £750 p.a.—Reply stating age and experience to Box 886, "The Builder."

JUNIOR TAKERS-OFF Required by FAITHFUL & GOULD, Chartered Quantity Surveyors, 1 Pipe-lane, The Centre, Bristol, 1, for interesting and varied work. Five-day week, good salary, bonus and pension scheme.—Please reply stating age and experience, etc.

WESTMINSTER Quantity Surveyors have a vacancy for a recently qualified TAKER-OFF, salary £900-£1,000. Pension scheme; luncheon vouchers; 5-day week. In addition to normal duties experience will be provided in cost control methods and the post should be of particular interest to a young Quantity Surveyor who has a penchant for research.—Apply in writing to LEMON & BLIZARD, 59 Tufton-street, London, S.W.1.

CHARTERED QUANTITY SURVEYORS, Holborn, SENIOR TAKER-OFF (A.R.I.C.S.); minimum of six years' Taking-off experience; salary up to £1,500 per annum.—Please write, stating age, and experience to Box 1009, "The Builder."

CHARTERED Quantity Surveyor (London, W.1) Requires capable TAKER-OFF, age 25 to 30. Varied and interesting work.—Please write stating age, experience and salary required, Box 1024, "The Builder."

TAKERS-OFF Required (A.R.I.C.S. preferred) by FAITHFUL & GOULD, Chartered Quantity Surveyors, 1 Pipe-lane, The Centre, Bristol, 1, for interesting and varied work. Five-day week, good salary, bonus and pension scheme.—Please reply stating age and experience, etc.

JUNIOR TAKER-OFF

required by

Firm of Chartered Quantity Surveyors in London

Salary £750–£950 per annum

Please apply stating age, experience and salary required to:

Box No. 837, The Builder

JUNIOR TAKER-OFF, Intermediate R.I.C.S Standard Required in Gloucester professional office. Opportunity for gaining general experience.—Apply in own handwriting stating present experience and salary required, Box 1025, "The Builder."

SENIOR TAKER-OFF Required in small Q.S. office, Westminster. Good salary and prospects.—Box 1011, "The Builder."

CHARTERED Quantity Surveyor, with small but widely varied London practice Requires JUNIOR TAKER-OFF.—Write with full details giving age, experience and salary required to Box 1012, "The Builder."

TAKER-OFF, age 26-40, Required for Central London Chartered Surveyor's Office. Excellent prospects, 5-day week. Salary up to £1,500, according to ability and experience.—Box 1031, "The Builder."

JUNIOR TAKER-OFF Required, studying for final R.I.C.S. Exam., or just qualified. State age, experience, salary required.—SARJEANT, STIMPSON & PARTNERS, 78 Park-lane, Croydon, Surrey.

EXPERIENCED JUNIOR TAKER-OFF Required in South Coast town.—State age, experience and salary required, in confidence to Box 1074, "The Builder."

EXPERIENCED TAKER-OFF Required by GEORGE CORDEROY & CO., Chartered Surveyors.—Particulars to 2 Caxton-street, Westminster.

SENIOR and JUNIOR TAKER-OFF Required by London Chartered Quantity Surveyors. Salary scales up to £1,500 p.a. and £1,100 p.a. respectively.—Write age, experience and salary required, to Box 1044, "The Builder."

A. S. WILSON and PARTNERS

Chartered Quantity Surveyors, require the following staff in Head Office and Branches:

LONDON	Takers-off Measuring surveyors Workers-up
ROMFORD	Taker-off/measuring surveyor
CAMBRIDGE	Taker-off/measuring surveyor
PRESTON	Taker-off/measuring surveyor

Apply stating age, experience and salary required to:

8, Storey's Gate, Westminster, S.W.1

TAKER-OFF, preferably qualified, Required by London Chartered Quantity Surveyors. Good salary and interesting work.—Reply stating age and professional experience to Box 1046, "The Builder."

WORKERS UP

WORKER-UP with 18 months' experience for small firm, S.W.1, and to assist in settlement of final accounts on varied work. State age, experience and salary required.—Box 611, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors. Good prospects for an applicant with the right experience; R.I.C.S. examination. Progress also considered.—Reply, stating age, experience and salary required, to Box 910, "The Builder."

EXPERIENCED WORKER-UP Required by London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 954, "The Builder."

WORKERS-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply, with full personal details, to Box 966, "The Builder."

WORKERS-UP

Informal interviews, out of office hours and on Saturday mornings, for

SENIOR AND ASSISTANT WORKERS-UP

at Head Office of

GEORGE WIMPEY & CO. LTD.

Hammersmith, W.6.

Ring G. S. Vickery, RIVerside 2000, ext. 432 for appointment.

SENIOR WORKER-UP for London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 953, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyor.—Please write stating age, experience and salary required to Box 965, "The Builder."

QUANTITY SURVEYORS in Westminster Require JUNIOR WORKER-UP. Opportunities of progressing through training to more senior position.—Please reply stating age, experience and salary to Box 970, "The Builder."

SENIOR WORKER-UP, to be in charge of small working-up staff, Required by Quantity Surveyors in Victoria-street, S.W.1. Varied practice. Five-day week, overtime when necessary.—Please reply to Box 906, "The Builder."

WORKER-UP Required by West End Quantity Surveyor. Five-day week.—Please write stating age, experience and salary required.—Box 767, "The Builder."

CHARTERED QUANTITY SURVEYORS, Central London, Require EXPERIENCED WORKER-UP. Five-day week. Luncheon Scheme. Salary £950 p.a.—Apply with details of past experience to Box 789, "The Builder."

WORKER-UP Required for Professional Office in Essex. House to rent probably available if required.—Apply stating age and experience to Box 791, "The Builder."

EXPERIENCED WORKER-UP Required by City Chartered Quantity Surveyors. Five-day week. Pension Scheme.—State age, experience and salary required to Box 817, "The Builder."

WORKER-UP Required by Quantity Surveyors near London Bridge. Pension scheme; overtime.—State age, experience and salary required to Box 818, "The Builder."

JUNIOR WORKER-UP Required in Chartered Quantity Surveyor's office, London, W.1, area. Opportunity at a later date to learn taking-off. Please write stating age, experience and salary required.—Box 845, "The Builder."

WORKERS-UP urgently Required in Holborn office of Chartered Quantity Surveyors. Good prospects of site measuring.—Box 968, "The Builder."

WORKER-UP Required by small busy professional office, combined with junior Taking-off if desired.—Write or 'phone CLARK AND GEARING, 16 Dominion-street, E.C.2.

WORKER-UP

who is prepared to make working up his career required for a permanent appointment in London Office of West End Firm of Chartered Quantity Surveyors. Good salary paid to suitable applicant. L.V.'s, 5 day week and Pension Scheme. Write stating age, experience, etc., to:

Box No. 836, The Builder

SENIOR WORKER-UP Required Holborn Chartered Quantity Surveyors. Security for right applicant willing to make working-up his career; good salary in return for hard work and competence.—Please write, stating age, experience and salary required to Box 1010, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply, in confidence, to Box 986, "The Builder."

WORKER-UP Required in small professional office preferably with some experience in junior taking-off.—Reply stating age, experience and salary required to ARTHUR J. BAILEY, A.I.A.S., 1448a London-road, Leigh-on-Sea.

ASSISTANT WORKER-UP Required by well-known Building Contractors in London area. Excellent terms and conditions to really keen man.—Write in confidence stating age and experience to Box TB.700, c/o 191 Gresham House, E.C.2.

EXPERIENCED WORKER-UP Required in West End office of London Chartered Quantity Surveyors.—Write age, experience and salary required, to Box 1045, "The Builder."

A LIMITED number of vacancies in London Chartered Surveyor's offices available to JUNIOR WORKERS-UP for training as Quantity Surveyors. Daily tuition and good commencing salary.—Reply stating age, education and professional experience to Box 1047, "The Builder."

FIRST class experienced WORKER-UP Required by City Quantity Surveyors. Salary £900 per annum according to experience. Guaranteed overtime can be worked to earn a minimum of £1,000 per annum. Permanent position.—Write giving full particulars to Box 1071, "The Builder."

WORKER-UP (Senior) Required. West End London. Five-day week. Pension scheme and other assets. Seeking right man.—Write stating age, experience and salary, Box 1048, "The Builder."

ENGINEERS

ENGINEERS, competent in setting out for Roads, Sewers and Buildings to operate on Housing Development.—Apply SIR LINDSAY PARKINSON & CO., Ltd., Building Department, 6 Lambeth-road, St. George's Circus, S.E.1.

CIVIL ENGINEER

Applications invited from young Engineers with about five years' experience on Building and Civil Engineering Sites, to work in the Midlands area in the first instance on large Contracts. The positions are progressive and a good salary and terms will be offered to the selected applicants. Full details of training and experience should be sent to the :

Personnel Manager,
Wilson Lovatt & Sons Ltd.,
Clarence Street, Wolverhampton.

CUBITTS

offer exceptional opportunities to

WORK STUDY OFFICERS

Applicants who should preferably have had training and experience in the Building and Civil Engineering Industry will be required initially for methods planning and recording on sites.

Senior positions exist within the organisation which will be filled from successful applicants who prove worthy of promotion.

Please write to:

Holland & Hannen and Cubitts (Great Britain) Ltd.,
1 Queen Anne's Gate, London, S.W.1.
or telephone Mr. Todd, WHItehall 3111 for an application form.

CIVIL ENGINEER (FIELD)

required for the supervision of civil sub-contractors on large Oil Refinery and Chemical Plant construction sites. Applicants must have had at least 10—15 years sound experience in this field.

COMMENCING SALARY
£1750 p.a.

Please write giving full details of age and experience etc. to Box. No. 1070

Established Company of Building and Civil Engineering Contractors require the following :—

PLANNING ENGINEER

To plan housing, Industrial Construction, Schools, Office Blocks and some Engineering Works. Applicants should have a technical qualification in the Building Industry and preferably a period in a responsible controlling position on Contract Sites, and be conversant with modern construction methods and management technique.

SENIOR BUILDING ESTIMATOR

Applicants should be capable of competitive tendering for all types of Contracts up to £1,000,000 in value and should be able to present completed Tenders with calculations, for final discussion with the Head of the Department.

These appointments are required due to the expansion of the Building Division.

Permanent positions are intended and a Superannuation Scheme is in operation.

Applicants should write in the first instance for an Application Form which will be treated in strict confidence.

Apply to :

THE NORWEST CONSTRUCTION CO. LTD.
Ruthven Road, Litherland, Liverpool, 21

BUILDING INDUSTRY

WORK STUDY ENGINEER

(aged about 30 years)

Required by Building and Civil Engineering Contractors based on Merseyside. Applicants should preferably have had work study experience but a background in the Contracting Industry is essential. Consideration may be given to training a suitable applicant in work study. This is a pioneer appointment in this Company and considerable tenacity and tact will be needed to implement the work, although every help will be given by the Parent Company where work study is well established.

Applications should contain full details of education, training, employment and employers (in confidence), age and approximate salary required.—Box 881, "The Builder."

SITE ENGINEERS

Young experienced men, with drive, initiative and technical or professional qualifications required by a firm that has doubled its turnover in each of the last three years. Must be mobile during initial service. Excellent long-term prospects for right type of man. Apply giving details, in confidence, of age, marital status, qualifications, posts held with salaries and duties, to the Managing Director.

T Projects Ltd.,
4, LION STREET,
KIDDERMINSTER, WORCS.

ESTIMATORS

FIRST CLASS ESTIMATOR-SURVEYOR Required by old-established Contractors, near London Bridge. Applicant must be experienced in all trades and capable of dealing with Contracts from enquiry to account. Superannuation Scheme.—Particulars age, experience and salary required to Box 871, "The Builder."

ESTIMATOR/SURVEYOR Required. Must possess ability to prepare estimates from plans and specifications. Good opportunity for keen energetic type. Salary commensurate with experience.—Apply in writing, giving full particulars, to DOUGLAS GRANT & PARTNERS Ltd., 62 Finsbury-pavement, E.C.2.

ESTIMATOR Required, experienced in Display Shopfitting or allied trade. Good all-round knowledge of modern methods and materials necessary. Attractive salary.—Write full details of experience, quoting ref. LAS/E, LEON GOODMAN DISPLAYS, Ltd., 119-125 Whitfield-street, London, W.1.

ESTIMATOR/SURVEYOR Required for medium-size Builders in the S.E. London (Kent) area. Salary according to age and experience.—Please write Box 977, "The Builder."

YOUNG ESTIMATOR SURVEYOR Required on varied new and alteration work in London area, successful applicant will be given every opportunity for advancement of his position.—Write stating full particulars to C. GRAHAM SMITH (BUILDERS), Ltd., 26 Flint-street, Walworth, S.E.17.

ASSISTANT ESTIMATOR/SURVEYOR Required for Building Contractor's office in Berkshire, competent to deal with small and medium-sized contracts from enquiry to final account with minimum supervision.—Apply giving full particulars of age, experience and salary expected to Box 702, "The Builder."

JUNIOR ESTIMATOR/SURVEYOR Required for Building Contractor's Office in Berkshire, preferably with some knowledge of either estimating or surveying. —Apply giving full particulars of age, experience and salary expected to Box 703, "The Builder."

ESTIMATOR/SUPERVISOR, able to deal with small jobbing and maintenance work in the London area from enquiry to final account. Required by leading firm of Building Contractors.—Applications stating age, experience and salary required to Box 759, "The Builder."

ESTIMATOR/MANAGER. Opportunity for an energetic young man, 30-35, having experience and qualifications to develop existing South London connection with backing of nationally known organisation. Excellent prospects. Small works., decoration, joinery, plumbing.—Apply, with details of age, salary and experience, to Box 796, "The Builder."

SCAFFOLDING ESTIMATOR Required. Must be fully experienced in all types of scaffolding and cradles and able to handle large and small contracts to the final account stage. Contributory pension scheme and car provided. Write stating age, experience and salary required. All replies dealt with in strict confidence.—STEEL SCAFFOLDING CO., Ltd., Union-road, London, S.W.4.

EXPERIENCED ESTIMATOR/SUPERVISOR Required for small works department, part of a larger contracting organisation, handling contracts up to about £5,000, in West and Central London. Salary in region £850 p.a. Pension scheme.—Box 865, "The Builder."

ASSISTANT ESTIMATOR Required by Contractor's Small-Works Department. Excellent prospects for keen young man having previous experience with jobbing or maintenance builder.—Apply to Mr. Lott, R. D. HOPE & CO., Ltd., 15 Selsdon-road, South Croydon. Tel.: CRO 9262.

ESTIMATOR Required by Beckenham Builder, capable of tendering and pricing all general building work.—Apply Box 887, "The Builder."

SENIOR PLANNING ENGINEER

A vacancy has arisen for a Work Planning Engineer in the Building Division of Richard Costain Limited. This is a senior appointment, offering a challenging opportunity to men who have a sound knowledge of modern management techniques in this industry. Imagination, energy and persuasiveness are among the personal qualities that will be required.

Candidates should be aged 33-45. Experience must include site control of Building operation ; knowledge of quantities, familiarity with site costing and a wide and up-to-date knowledge of plant are also necessary. Preference will be given to candidates who have received training in Work Study and Planning methods.

Please write giving details of experience to :

Senior Personnel Officer,
RICHARD COSTAIN LIMITED,
111, Westminster Bridge Road, London, S.E.1

SENIOR ESTIMATOR

(*Age about* 30)

Responsible to Head of Department for building works up to £100,000 in value. Central London Firm.

Contract Surveyor

(*Age about* 30)

To take charge of progress valuations, bonusing and final account work. Assistance given.

The above appointments are part of a policy of expansion of a successful firm and offer excellent prospects for advancement in a thriving and expanding business.

The successful applicants will be able to share in the prosperity they create—annual bonus on results.

Box No. 1077, "The Builder."

SENIOR ESTIMATOR

required by

NATIONAL BUILDING CONTRACTORS

The appointment offers tremendous scope for an experienced man with ambition. After an initial proving period he will be required to take over the Estimating Department and play an executive part in a policy of expansion in the group.
Reply in confidence to Box No. 1013.

ATCOST (FACTORIES) LTD

Our rapidly expanding organisation urgently requires

ESTIMATOR-SURVEYORS

capable of taking-off and pricing own quantities from Architects' sketch schemes, adjustment of variations, site measuring and negotiating firm price tenders with Contractors.

Permanent superannuated appointments, with good working conditions offered in our offices in the North of England, Midlands and Tunbridge Wells.

Apply in writing, in confidence, stating full details of experience, age and salary required, to:—

Contracts Department,
Atcost (Factories) Limited,
York House, High Street,
Tunbridge Wells, Kent.

One of the **ATCOST** Group of Companies.

ESTIMATOR/SURVEYOR

required for office work and final accounts. Qualified men only need apply:—

Pollock Brothers (London) Ltd.,
473 New Cross Road, S.E.14.

ESTIMATOR Required for Metal Decking and Build-up Roofing Division of National Company. The position holds prospects for man with sound knowledge of building or steel work construction.—Write in first instance to Chief Estimator, D. ANDERSON & SON, Ltd., Stretford, Manchester.

EXPERIENCED ESTIMATOR AND SURVEYOR Required. Taking off quantities and pricing same, pricing Bills of Quantities, etc. Old established Surrey builders.—Please reply in writing stating age, experience and salary required. Car driver essential. Box 1014, "The Builder."

ESTIMATOR and SUPERVISOR for jobbing Builder in West London. Good prospects for right man. State salary and experience.—Box 1026, "The Builder."

ESTIMATOR/SURVEYOR Required by established Building Contractors in S.W.1 area. Applicants must be capable of dealing with contracts up to £40,000, from enquiry to final account.—Apply in writing, stating age, salary required and giving full details of experience to WILLIAM WILLETT (CONTRACTORS), Ltd., Sloane-square, S.W.1.

ESTIMATOR/SURVEYOR Required for progressive Company.—Apply by letter stating experience and salary required to DOWNS ESTATES, Ltd., Brighton-road, Banstead.

ESTIMATOR/BUYER Required for medium sized builders in south London. Capable of estimating jobs up to £50,000 and preparing final accounts.—Box 1049, "The Builder."

ESTIMATOR/SUPERVISOR Required for good class maintenance builder, Wimbledon area, to handle all types of Decorations, Conversions small works and jobbing. Estimating experience and sound knowledge of construction essential. Car driver. First class opportunity for right man.—Write stating experience and salary required. Box 1050, "The Builder."

CENTRAL London builders, carrying out general building works, Requires ASSISTANT ESTIMATOR, used to alterations and new works, with a view to eventually taking over management.—Apply giving details of past experience and salary required, Box 1051, "The Builder."

LESLIE

& CO. LTD.

require

SENIOR ESTIMATOR

Applicants should have had similar experience in estimating for all types of major building projects, and particularly Reinforced Concrete multi-Storey Structures. Sound knowledge of price analysis utilizing Modern methods.

This position carries an attractive salary, annual bonus and non-contributory pension scheme.

Apply to:

Chief Estimator, Leslie & Co. Ltd.,
Peel Street, Kensington, W.8.

BERNARD SUNLEY & SONS

require a first class

JOINERY ESTIMATOR

for their Works in London.

This is an excellent opportunity for a man of the right calibre in a keen and progressive Organisation. Apply giving full particulars of age, experience, etc., to :—

Contracts Manager,
25 Berkeley Square, London, W.1.

J. M. JONES & SONS LTD.

require

SENIOR ESTIMATORS

These are additional appointments and are progressive with Staff Pension and Life Assurance Schemes. Assistance with housing if necessary. Apply stating age, details of general education, technical education, qualifications if any, previous appointments held and, in confidence, the name of present employer, to the Secretary, J. M. Jones & Sons Ltd., Highway Works, Maidenhead.

INDUSTRIAL PAINTING

TOP WEIGHT MAN
FOR
SUBSTANTIAL LONDON COMPANY

Keen Estimator and Supervisor with the necessary contacts to enlarge an already thriving business.

Candidate should be about 35 yrs. A good disciplinarian and with the experience to permit him to make a highly remunerative career for himself. The position is pensionable (non-contributory) and carries with it an annual bonus on results.

Box No. 1076.

TOKEN CONSTRUCTION CO. LTD.

require, due to re-organisation of Departments,

SENIOR ESTIMATOR
Fully experienced in all types of major projects, including large concrete structures. Capable of complete cost analysis in all trades.

ESTIMATORS
With sound technical knowledge of competitive tendering.

SENIOR SURVEYORS
With a sound knowledge of site surveying duties.
and
JUNIOR SURVEYORS
All applicants to reply in writing, giving age and experience, to:

Personnel Director,
Token Construction Co. Ltd.,
68, Mount Street, W.1.

PLUMBING ESTIMATOR

BUILDING ENGINEERING CONTRACTORS LTD.

Present the opportunity of 1960—
Go forward to the 1970's with us.

We want a competent man who will relieve the existing management of responsibility. We are prepared to pay a generous salary with bonus. This is a progressive position under good conditions at our London Head Office.

Make an appointment for an informal interview with out Managing Director.

BISHOPSGATE 8321.
BUILDING ENGINEEPING HOUSE,
DYSART STREET, FINSBURY SQUARE,
LONDON, E.C.2.

MANAGERS

CONTRACTS MANAGER/SUPERVISOR Required by well-known old-established Company of Building and Civil Engineering Contractors in the South West. Applicants, possessing previous experience, should be capable of organising and controlling a number of Contracts concurrently, and should be well acquainted with modern building methods and plant, preplanning and cost control. Preferred age 30 to 45. The salary will be commensurate with experience. The position is permanent and pensionable. Car provided. —Reply in confidence, giving age and details of previous experience, to Box 872, "The Builder."

MANAGER Required for medium-size building contractors in West London area.—Reply stating age, qualifications and salary required to Box 875, "The Builder."

A MANAGER is Required for the Small Works Department of a leading firm of Building Contractors in London. He must be capable of inspiring confidence in customers and securing new business and making on-the-spot estimates where necessary. He must also be able to organise and supervise work in progress on a number of small contracts, the maximum value of any one contract being £20,000. He must be capable of inspiring loyalty in office and site staff. Candidates should preferably be between 35 and 45 and have practical knowledge and sound qualifications in building construction, quantities, and estimating. The salary will be in the range of £1,500 p.a. depending on qualifications and experience.—Write Box 730, "The Builder."

TWO CONTRACTS MANAGERS Required by North West Building and Civil Engineering Company. One to specialise on large buildings and the other on medium sized civil engineering contracts. Salary £1,250-£1,500 plus bonus. Car provided. Assistance with housing if required. Work usually within 30 miles' radius of Head Office.—Age and full particulars, in confidence, to Box 1016, "The Builder."

PLASTERING CONTRACTORS

require

MANAGERS

Plastering Contractors of National Status require Surveyor-trained Managers who are at present employed in the Plastering Industry.

Salary £1,500 to £3,000 per annum depending on ability.

Applicants must be between the ages of 30 and 35 and must be able to take full control of businesses at Director level anywhere in the United Kingdom.

Applicants should give brief details of their careers to date, together with name of present Employer.

All applications in the strictest confidence and marked "Plastering Manager" to

Box 705, 'The Builder'

BUILDING CONTRACTORS

CONSTRUCTION MANAGER

SENIOR MANAGER required to supervise construction work, houses, roads and sewers on estates in the home counties, Buckinghamshire and Bedfordshire. The candidate selected will work from London Head Office and be responsible to the Directors.

★

Experience of similar work of over half a million turnover run on modern methods of programming, cost control, and labour management is essential.

★

The Company is a family concern of long standing with a high reputation to maintain.

★

Age preferred 35 to 50, salary between £1,500 and £2,000 p.a., plus bonus according to experience. Car provided or allowance for own car.

★

Candidates should write stating age, qualifications and experience in chronological order, present appointment and salary to **URWICK, ORR & PARTNERS LIMITED,** who have been asked to advise in connection with this appointment, at **Urwick House, 14 Hobart Place, London, S.W.1,** quoting reference EEW/1359 on the envelope.

ALLEN FAIRHEAD & SONS LTD

are recruiting young men of character and ability, aged about 25, of H.N.C. standard and some practical experience.

The successful applicants will be directly responsible to the Assistant Contracts Manager for specific aspects of contracts planning, programming and scheduling.

Interviews will be held on or about February 11th and applications stating age, experience and salary required should be forwarded to:—

THE CONTRACTS MANAGER
ALLEN FAIRHEAD & SONS LTD.,
ENFIELD, MIDDX.

MANAGER

REQUIRED FOR SHOPFITTING COMPANY

in Bristol who have modern Premises and Machinery and employ 15 persons. Applicants must have had a thorough training and experience in all branches of the trade. The duties of the selected person will be to obtain enquiries, prepare sketches and estimates, plan production of the work, buy materials, etc.

The situation calls for a man with drive and initiative, able to expand the business and engage additional staff as required, and would lead to a Directorship in the Company after proved results. Details of education, career, age and present salary in confidence to

Box No. 1053

Expanding Company specialising in Hairdressing Salons and general Shopfitting requires energetic man with experience of all aspects of

SHOPFITTING

from first enquiry to completion, to take over general running of contracts. Ability to negotiate with clients, prepare shopfitting drawings and deal with contractors and tradesmen essential. Good salary and commission. Write, with full details of age, experience, etc. **Box 868, "The Builder"**

SPECIALIST Contractors (London) have a vacancy for a man of high ability with Building Trade experience and Surveyor background, to control operational activities in a number of fields. This is a very senior position and carries a substantial salary and excellent prospects.—Write in confidence Box 1015, "The Builder."

AREA MANAGER Required for supervision of Housing Sites in South Wales area. Bonus Scheme and car provided if required. Superannuation after trial period. Company operates from Bristol and applicants need not necessarily reside in South Wales.—Full details to General Manager, Box 1018, "The Builder."

GENERAL MANAGER seeks appointment with medium/large B. & C.E. Contractors where directors are prepared to give him authority with responsibility and remuneration on results.—Box 727, "The Builder."

BUILDING Contractor having substantial contracts Require MANAGER, experienced in private estate developments, multi-storey flats and factory construction including supervision of all stages of construction. Knowledge of costings and estimates also essential. Excellent salary for right man.—Box 1052, "The Builder."

SITE MANAGER Required by progressive medium-sized contractors, to be assistant to Construction Manager. This new post offers scope in a steadily growing Company to young assistant contract managers, between age of 28-35 years. Craft training preferred but have quantity surveyor's experience. —Applications invited, by letter, addressed to General Manager, giving full particulars of experience, background and indication of salary expected. All applications will be treated with the strictest confidence.—ARTHUR GIBBS & SON (PUDSEY), Ltd., Builders and Contractors, 44 Richardshaw-lane, Pudsey, Yorkshire.

CONTRACTS MANAGER Required by well-known firm of medium sized Contractors. Head Office in Central London, to manage projects in the Greater London area. Must possess sound qualifications, L.I.O.B. an advantage, 35 to 45 age group preferred. —Write stating age, experience and salary required, Box 1033, "The Builder."

PAINTING COMPANIES

require

MANAGING DIRECTORS

Applications are invited from individuals fully trained in the control and management of specialist painting businesses for appointment as Managing Directors in Companies operating in various areas of the United Kingdom.

Commencing salary up to £1,750 according to qualification, plus bonus and expenses.

Applicants who should not be over 40 years of age, should apply in writing giving brief details of career to date, together with name of present Employer. All applications will be treated in strictest confidence and should be marked "Painting Manager" to

Box 706 'The Builder'

CLERKS OF WORKS

CLERK OF WORKS Required in London, experienced in construction of Industrial Buildings and Office Blocks. Conversant with L.B.A.—Write, stating age, experience and salary required to Box 692, "The Builder."

CLERK OF WORKS.—Applications are invited for the position of CLERK OF WORKS for the construction of a new factory at Havant, Hampshire. The successful applicant will be required to take up his duties on 1st April.—Apply giving full details of past experience, references, salary required to MALCOLM PECK, ROBERTS & ASSOCIATES, Chartered Architects, 15 Friary-street, Guildford.

YOUNG man required by large Residential Property Company to act as CLERK OF WORKS under Branch Manager. Must be capable of preparing and pricing specifications for general maintenance of properties. Permanent job for right man. Pension scheme.—Write giving age, experience and salary required, to Box 1019, "The Builder."

APPLICATIONS are invited for the appointment of a temporary CLERK OF WORKS for the 14 month period of the contract for the building of new offices and shops at Old Burlington-street, W.1, for the Lewis Group of Companies. The successful applicant will be required to work under the direction of the architects, Messrs. Gollins, Melvin, Ward & Partners. Salary by arrangement.—Applications, giving full details of name, age, qualifications, present post and salary, previous contracts engaged upon and names and addresses of two referees, should be sent to the architects at 15 Manchester-square, London, W.1, not later than noon, FRIDAY, 5th FEBRUARY, 1960.

BUYERS

BUYER (MALE ASSISTANT) Required by A. E. SYMES Limited, Building Contractors, 236-252 High-street, Stratford, E.15. Some previous experience essential.—Write, stating age, experience and salary required, to Managing Director.

BUYER Required by well established firm of S.E. London Contractors capable of buying in all trades and preparation of Schedules from Bills of Quantities and Drawings.—State age, salary and experience to Box 928, "The Builder."

BUYING ASSISTANT with experience of abstracting from Bills of Quantities. Required by national firm of building and civil engineering contractors to assist with issue of Tender enquiries. The appointment is to London Head Office, and offers good scope for progress.—Please write giving age, full details of career, and indication of salary required to Box 882, "The Builder."

SENIOR BUYER

required by Coventry Builders and Estate Developers. Permanent, pensionable, profit-sharing opportunity for Directorship. House available. Complete details please to

Box 1020, "The Builder"

REPRESENTATIVES

EXPANSION of the Stonhard Company, one of the Berger Group of Companies. TECHNICAL REPRESENTATIVES, aged 25-45, Required in the London, Glasgow, Lancs, and East Midlands areas. Some experience in the building industry required, preferably as Clerk of Works or Building Surveyor.—Please reply to the Sales Manager, THE STONHARD COMPANY, Berger House, Berkeley-square, London, W.1.

REPRESENTATIVE Required for London and the surrounding counties by well-established specialists in Reinforced Concrete and Glass constructions. Experience as draughtsman in reinforced concrete and cast concrete products an advantage. Five-day week. Non-contributory pension scheme in operation.—Write, stating age, salary required and full details of experience, to J. A. KING & CO., Ltd., 181 Queen Victoria-street, E.C.4.

REPRESENTATIVE either whole- or part-time wanted by old established Flooring Contractors, Blocks, Wood Mosaic, Boards, Cork, Thermoplastic Tiles, Middlesex and adjacent counties available now. —MONARCH FLOORING CO., Ltd., Alperton-lane, Wembley. PERivale 0555-6.

REPRESENTATIVES already calling on Architects, Builders, Builders' Merchants, Required by a reputable firm on south coast to carry additional lines on commission basis. This is a first class opportunity for man with connection.—Write in first instance to Box 896, "The Builder."

REPRESENTATIVE with good connection with London architects and able to handle another line. Required by manufacturers of specialist joinery. Remuneration on the basis of a retaining fee and commission.—Box 1054, "The Builder."

IMPERIAL CHEMICAL INDUSTRIES LIMITED

ICI

have immediate vacancies for

PAINT SALES REPRESENTATIVES

to call on Architects, Public Authorities, property owners and decorators to promote sales of 'Dulux' and 'Du-lite' paints.

Candidates should be between 25 and 35 years of age and must have previous paint selling experience. They should also be well spoken, of good appearance, and possess a real zest for selling.

Payment is by salary and there are excellent prospects. Adequate expenses and car provided. Pension and Profit Sharing Schemes.

Applications, giving brief details of education and experience, should be addressed to:

The Staff Officer,
I.C.I. Ltd.,
Paints Division,
Wexham Road, Slough, Bucks.

REPRESENTATIVES

with knowledge of Suspended Ceilings and Industrial Lining, together with good connections; required by modern progressive company.

Applications, which will be treated confidentially, should be addressed to:—

E. E. Shaw, General Manager, D. & A. McKnight Limited, Porters Wood, St. Albans, Herts.

BUILDERS ASSISTANTS

AN ambitious young man, age 25-30, is required as ASSISTANT to Contracts Manager. Applicants should have reached a minimum of H.N.C. and should expect to work hard. An ability to organise and control labour is essential. The Company is progressive and vigorous, and has a record of continuous expansion over the past 12 years. There is more than the usual opportunity to progress. This would be an excellent opportunity for a young man with general experience in a small or medium concern.—Please write with full details to Managing Director, Box 894, "The Builder."

GENERAL BUILDING ASSISTANT Required to deal with housing, farm and cottage improvement schemes. Competent draughtsman, capable of handling contracts, preparing specifications and supervision. Must be car driver. Grade III salary, £600-£800.—Write, stating age and experience, to A. ROSCOE-HUDSON, A.R.I.B.A., 14 Market-place, Faringdon, Berks.

YOUNG MAN Required by London Building Contractors, to prepare progress schedules, obtain quotations, order materials, etc. O.N.C. standard. Must be able to take off. Excellent prospects.—Telephone: SLO 5189 for appointment.

AGENTS

AGENTS Required by SIR LINDSAY PARKINSON & CO., Ltd. Must be fully experienced all types building contracts and mobile. These positions are pensionable and offer good chances of advancement. Only applicants seeking such opportunities should apply to 6 Lambeth-road, St. George's Circus, London, S.E.1. Ref. H.J.L.

CRUDENS LIMITED,
Musselburgh, Scotland.
AGENT
with Building or Civil Engineering qualification, is Required for large school contract in North East England.—Applicants should give details of their experience and approximate value of previous contracts carried out.

AGENTS and GENERAL FOREMEN Required for private housing and flat development in Home counties and North of England.—Apply to Box 762, "The Builder," stating previous experience.

AGENTS/GENERAL FOREMEN
Required for large Building Contracts in East and North Scotland. Applications will be entertained only from men of experience, conversant with modern methods, who are capable of working to strict programmes. Attractive conditions and prospects are offered.—Apply giving full chronological details of experience and present salary to Box 1002, "The Builder."

BUILDING AGENTS/GENERAL FOREMAN holding Building or Civil Engineering Qualifications are asked to submit details for consideration. Contracts are mainly in the Midland area. Superannuation and other amenities available, plus attractive salaries.—Write with full details of previous experience to Box 888, "The Builder."

BUILDING AGENTS

Required for the Birmingham Area.

Applicants must have experience of Reinforced Concrete Structures with superior finishes up to the value of £750,000.

Excellent salaries are offered together with opportunities of earning liberal bonus awards. Applications stating age, Trade, and in chronological order, details of experience and previous employers to

Box No. 1021 'The Builder'

FOREMEN & SUPERVISORS

EXPERIENCED FINISHING TRADES FOREMAN Urgently Required for £500,000 contract in Kensington. Permanency for right man.—Apply Box 747, "The Builder."

GENERAL FOREMAN of real ability and drive, capable of working to tight time schedules and experienced in sole charge of R.C. and other projects of £20,000 to £100,000 in value for expanding firm of contractors. This position will be progressive and pensionable for a determined man who produces the required results.—Reply stating age and experience to COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

WORKING FOREMAN POLISHER Required with experience bleaching, staining, matching for french polish and spray finishes (Provinces).—Details age, experience, wages, Box 641, "The Builder."

WEST END Decorators Require SUPERVISOR. State age, experience and salary expected with details of present position. Progressive position.—Box 764, "The Builder."

GENERAL FOREMAN immediately Required for shops/maisonettes, Crawley area. Preferably C. & J. but not essential; only men used to good quality work need apply.—Apply stating age, previous experience, salary, etc., or telephone: Strood 78216. PEAK CONSTRUCTION (LIVERPOOL), Ltd., Knight road, Strood, Kent.

UNILEVER LIMITED Require a TEMPORARY BUILDING INSPECTOR for site supervision of a large project in London, comprising steel and R.C. construction. Duration of work, 1½-2 years. Salary range £1,500-£1,600 per annum. Experience in measurement and contractors' accounts essential.—Applications, giving full details and qualifications, experience, career to date and present remuneration to be addressed to Head Office Staff Department (WF 49), UNILEVER LIMITED, Unilever House, Blackfriars, London, E.C.4.

SUPERVISOR (C. & J.) Required for Medium-Sized Firm, N.W. London. Must have knowledge and experience of all types of trades and medium-sized contracts, new work and conversions, etc. Must be keen organiser and able to drive car.—Apply stating age, experience and salary required. Box 869, "The Builder."

PLUMBING FOREMAN Required to organise and supervise Building Contractor's plumbing and heating work. Must hold licence to drive. Excellent opportunity for young man to advance with this progressive organisation.—Apply to Mr. Lott, R. D. HOPE & Co. Ltd., 15 Selsdon-road, South Croydon. Tel.: CRO 9262.

GENERAL FOREMAN Required by progressive building company. Principal activities houses and maisonettes mainly Middlesex area. Write giving full details of experience, etc.—Box 782, "The Builder."

GENERAL FOREMAN for School Alteration and Extension Contract E. London.—Write, stating age, experience and salary required, to Box 797, "The Builder."

CONTRACTS SUPERVISOR Required for work in London and Home Counties area. Applicants must have drive and ability, and be fully experienced in the control and supervision of large building contracts of every description.—Write in confidence giving age, details of previous experience and employers, and salary required, to The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

GENERAL FOREMAN Required for contract about £20,000 in North London. Applicants should have good general experience of high quality work including new work as distinct from alteration. Opportunity exists to become member of permanent staff.—Write stating age, experience and salary required to HAMMOND & MILES, Ltd., Scrafton Road Works, Ilford.

GENERAL FOREMAN Required for contract, West Norwood area. Traditional construction, value £60,000. Permanency with pension scheme.—Write, giving full particulars with copy references if available, to RICE & SON, Ltd., 15 Stockwell-road, S.W.9.

GENERAL FOREMAN (experienced) Required for Old People's Home (approximately £70,000), Tottenham.—Reply stating age, trade, experience, previous employers and salary required, to C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

GENERAL FOREMEN
Required for high-class Commercial and Industrial Contracts, London and outskirts. Applicants who are engaged and prove ability, can join permanent staff. Life Insurance and Pensions Scheme.—Following particulars must be given in writing before interview: age, trade, experience, previous employers, to McLAUGHLIN & HARVEY, Ltd., 24 Highbury-grove, N.5.

GENERAL FOREMAN as ASSISTANT to site agent to supervise second fixing, decorations. Private housing estate. Potters Bar.—Write full details LAWDON PARTNERS, Ltd., 157 Victoria-street, S.W.1.

CONTRACTS SUPERVISOR Required by E. H. BURGESS, Ltd., 34 Grosvenor-gardens, London, S.W.1, to control Site Organisation and Contract Purchases.—Please write giving details of experience and salary required.

EXPERIENCED GENERAL FOREMAN Required, capable of handling contracts to £100,000.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMAN Required for a £20,000 Public House contract in Charlton.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

EXPERIENCED CONTRACTOR'S SUPERVISOR Required to supervise London contracts. Should have been experienced Contractor's Agent or General Foreman.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

EXPERIENCED GENERAL FOREMAN Required for a large Municipal Contract at Maidstone.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

FOREMEN Required for small contracts up to £30,000. Epping and district.—JAMES WHIFFIN & SONS Ltd., Granville Works, Epping, Essex.

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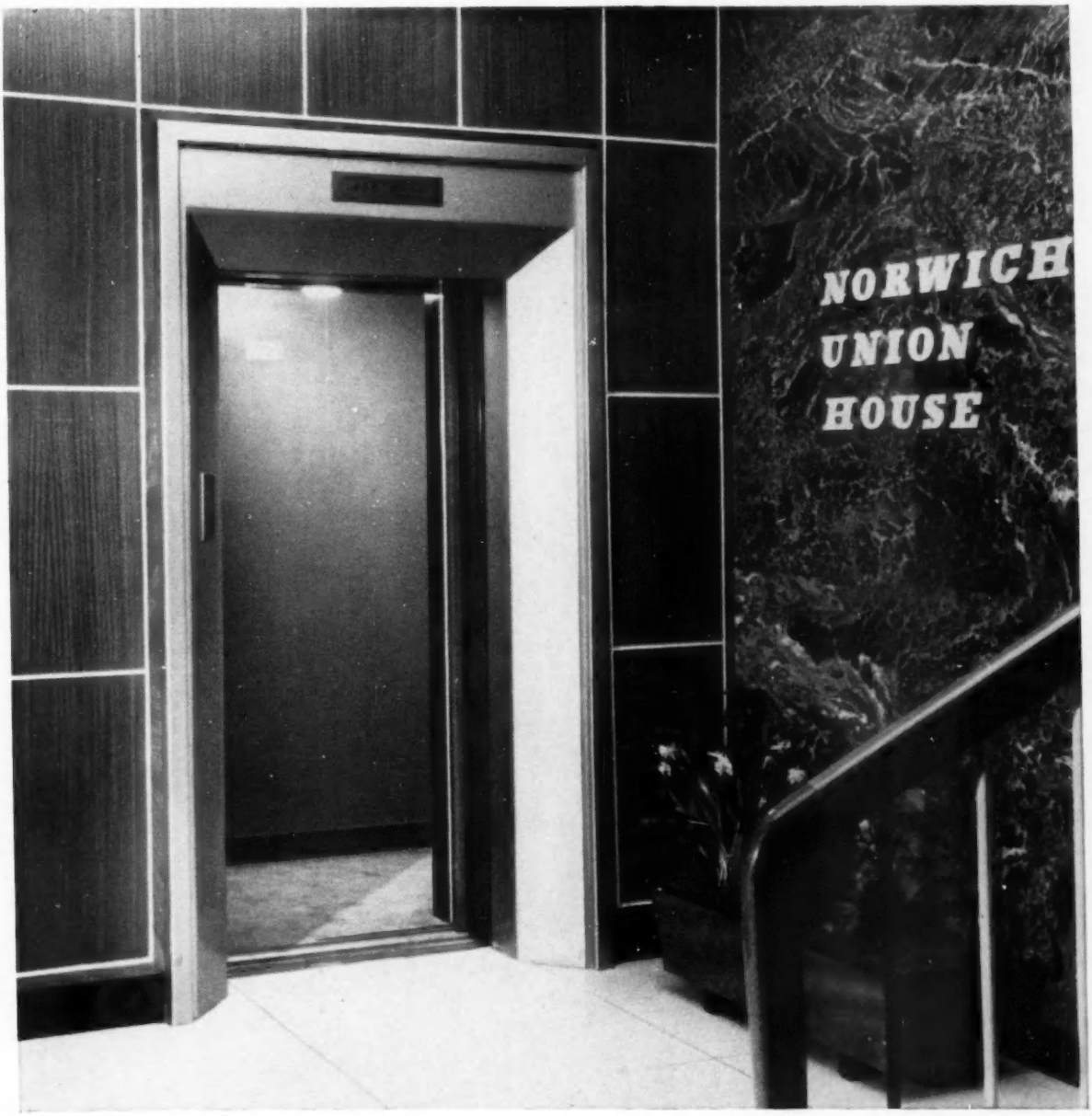

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